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ANNUAL REPORT
OF THE
FIRE DEPARTMENT,
FOR THE
YEAR 1895.



BOSTON:
ROCKWELL AND CHURCHILL, CITY PRINTERS.
1896.

YRABEL OLIVER

INT 70

NOTES FOR TO

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OFFICE OF THE FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 27, 1896.

His Honor JOSIAH QUINCY, *Mayor*:

SIR: Respectfully submitting the statistics of this department for 1895, I beg to call your attention to the favorable showing made by the figures of losses and insurance. But good fortune in the immediate past furnishes no ground for hoping that the millennium has come; for as long as we have much faulty construction still allowed by law, with large floor areas, and the possibility of securing alarms only after fires have gained good headway, we may at any time expect a conflagration in spite of all the earnest efforts of the department. The reduced cost of some materials and curtailment of expenses at headquarters have enabled us to make such repairs on engine-houses as the health and comfort of the men and protection of the property absolutely required; and now the houses are in fair working order with the exception of Ladder-House 13, on Washington street, near Dover, and Engine-House 30, on Mt. Vernon street, West Roxbury, both of which are not worth repairing, having been condemned by the Building Commissioner; and I strongly recommend that means be provided for new houses for these two (2) companies. Some years ago land was bought at Grove Hall for a ladder truck, and now lies unoccupied, though the necessity has not been removed; and the proper protection of that locality strongly calls for the completion of the plan to furnish the people there with adequate apparatus. There are thirty-two thousand (\$32,000) dollars remaining from a larger sum provided some time since for land and house for an engine company to be placed at the North End, and I earnestly recommend that said \$32,000, with \$18,000 additional, be devoted to a system of underground pipes to carry salt water from our harbor to the more congested parts of

the city in accordance with the plan made by the City Engineer, the adoption of which I have already strongly recommended. A veterinary hospital and training school is much needed, as at present the quarters hired on Nawn street, Roxbury, at \$720 per annum, for the use of sick and disabled horses, are entirely inadequate and unfit for the purpose. At one time land was secured on Swett street, and plans made for a suitable hospital, and I beg to have the matter taken up and carried to a successful solution in accordance with original plans calling for twelve thousand (12,000) dollars.

There are many localities where the recent growth of population justifies, in the minds of the inhabitants, an appeal for increased fire protection; but I think the present apparatus adjacent to such localities sufficient to prevent any serious fire, and I do not believe the interests of the city call for any extended addition to the present force; but I do strongly recommend such strengthening of the present department as I have already suggested; for, with these additions and improvements, we will, I think, be justified in hoping for continued good fortune if citizens will do their part by giving us promptly the first alarm; and in my opinion the interests of all call for perfection of the present force rather than for more extension.

FIRE DEPARTMENT.

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TABLE NO. 1.

MONTHS.	ALARMS RECEIVED.					LOSS.		INSURANCE.		ALARMS.				BUILDINGS.				Out of City.	Wharf, Vessel, Coal-pile, Cars, Boulders, Rubbish, etc.					
	FROM WHOM.					Buildings.	Contents.	Buildings.	Contents.	TELEGRAPH.				No Damage.	Slight Damage.	Considerable Damage.	Totally Destroyed.							
	Fire patrol.	Members.	Police.	Citizens.	Automatic.					Unknown.	Total.													
February	9	13	20	125	6	..	169	\$45,503	\$21,777	\$1,647,552	\$559,550	72	..	6	91	133	2	18	50	77	8	2	..	10
March	2	10	17	102	4	1	136	45,355	54,560	1,067,325	634,400	52	1	8	75	85	1	17	37	43	7	..	2	22
April	7	12	14	114	4	1	152	43,576	21,599	972,992	542,750	69	2	3	78	94	2	17	42	49	7	1	3	31
May	2	7	19	117	7	..	152	9,445	12,181	1,848,675	1,640,002	63	1	13	75	97	6	14	43	66	3	2	2	19
June	18	9	38	151	4	1	221	6,608	8,533	938,500	399,821	62	2	11	146	100	2	15	43	60	1	2	..	91
July	14	17	29	129	2	1	192	13,454	46,151	533,200	365,400	62	2	8	120	98	2	9	43	51	4	4	1	72
August	3	11	15	136	7	..	172	32,918	140,284	1,455,425	1,181,598	85	1	8	78	122	5	13	57	68	8	5	2	21
September	4	11	8	130	5	1	159	150,198	154,341	949,250	502,739	63	4	14	78	101	4	18	50	54	7	5	1	17
October	4	22	15	121	5	1	168	20,789	24,772	1,906,475	1,333,125	61	2	10	95	109	3	15	45	62	7	2	..	29
November	6	8	13	99	5	2	133	39,560	67,502	1,222,175	621,275	60	3	8	62	91	5	13	40	54	8	4	..	13
December	4	2	9	108	9	..	132	29,999	16,405	621,718	128,975	56	..	7	69	96	4	19	45	54	5	2	..	6
January	4	4	20	132	11	2	223	16,649	18,327	1,198,050	713,025	88	4	18	113	159	3	30	65	98	5	..	1	8
Totals	73	126	217	1514	69	10	2009	\$454,954	\$586,432	\$14,361,337	\$8,622,660	793	22	114	1080	1285	39	198	560	736	70	27	12	339

TABLE No. 2.

*Showing the different Causes of Fires and Alarms, from
February 1, 1895, to February 1, 1896.*

Alarms, accidental, automatic	32
“ needess	114
“ false	22
“ out-of-town	12
Ashes, hot, in wooden receptacle	34
Boiling over of tar or fat	21
Bonfires, grass, rubbish, etc.	339
Careless use of lamps, candles, etc.	34
“ “ “ fire	6
“ “ “ pipe or cigars	32
Chimneys, soot burning	59
“ defective	20
Clothes too near stove	8
Defective flue	35
“ stove-pipe	6
“ grate	2
“ furnace	4
Electric motor igniting car	30
“ wires	52
Explosion and igniting of chemicals	11
Fireworks	45
Friction	3
Fumigating	4
Gas, explosion of	5
“ ignition of leaky pipes	11
“ jet setting fire	62
“ stove, careless use of and explosion	24
Incendiary	28
“ supposed	19
Kerosene lamp, explosion or breaking	92
“ “ upsetting	42
“ stove, careless use of and explosion	59
Light mistaken for fire	24
Lightning	2
Matches and rats	34
“ careless use of	73
“ children playing with	48
Naphtha, careless use of and ignition	20
Overheated stove	26
“ steam-pipe or boiler	11
Rekindling of ruins of previous fire	1
Slacking of lime	8

FIRE DEPARTMENT.

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Smoky chimney	29
“ furnace or stove	21
Sparks from another fire	6
“ “ furnace or stove	16
“ “ chimney	34
“ “ locomotive	24
“ “ forge	7
Spontaneous combustion	68
Steam escaping	6
Unknown	241
Water-pipes, thawing out	39
Wood in oven igniting	4
Total	2,009

Total number of actual fires	1,675
Confined to one building	1,285
Extended to others	39
Wharves, vessels, grass, etc.	339
Out of the city	12

BUILDINGS.

Slightly damaged	736
Considerably damaged	70
Totally destroyed	27
Not damaged	560

Fire Commissioner Henry S. Russell was appointed January 21, 1895. Present term expires May, 1898. Salary, \$5,000.

Benjamin F. Underhill, Jr., Clerk, appointed by the Fire Commissioner. Salary, \$2,400.

CHIEF OF DEPARTMENT.

LEWIS P. WEBBER, Headquarters, Bristol street.

First Assistant Chief, JOHN W. REGAN, Headquarters, Engine-house 26, Mason street.

Second Assistant Chief and Chief of District No. 4, WM. T. CHESWELL, Headquarters, Engine-house 4, Bulfinch street.

District Chiefs.

Peter F. McDonough, Headquarters,	Ladder-house 2.
C. H. W. Pope, “	“ 9.
John F. Egan, “	“ 8.
John F. Ryan, “	Engine-house 26.

John A. Mullen,	Headquarters,	Engine-house 1.
Patrick E. Keyes,	"	" 3.
John Grady,	"	" 13.
Edward H. Sawyer,	"	Ladder-house 4.
Williston A. Gaylord,	"	Engine-house 18.
Nathan L. Hussey,	"	" 41.
Lewis P. Abbott,	"	" 28.

CLERKS.

Wm. E. Delano, M. J. Lafferty, Geo. F. Murphy, James P. Maloney.

D. J. Quinn, *Messenger*.

FORCE AND PAY-ROLL.

Chief of Department	\$3,500 per annum.
First Assistant Chief	2,400 "
Second Assistant Chief	2,200 "
11 District Chiefs	2,000 "
Superintendent of Repair-shop .	2,000 "
Second Assistant Superintendent of Repair-shop	1,300 "
Veterinary Surgeon	1,800 "
2 Clerks	1,000 "
1 Clerk	900 "
1 Clerk	600 "
1 Messenger	1,000 "
1 detailed man as Clerk, Apparatus Repair-shop	1,000 "
51 Captains	1,600 "
41 Lieutenants	1,400 "
45 Engine-men	1,300 "
305 Permanent Men	1,200 "
50 " "	1,000 1100. "
48 " "	1,000 "
1 Permanent Man	912.50 "
31 Call Men	250 "
36 " "	200 "
36 " "	175 "
40 Permanent Substitutes	900 "
15 " "	720 "
3 Call Captains	325 "
1 Hostler	624 "
2 Watchmen	1,000 "
1 Driver for Chief of Department .	1.95 per day.
12 Drivers for District Chiefs . .	1.75 "

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park, and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter, and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle, Ferdinand streets, Columbus avenue, and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte, and Way streets, and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by the old boundary line between Roxbury and

West Roxbury, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, Olney, and Columbia streets, and on the west by Blue Hill avenue, Seaver and Washington streets.

District 10.

That part of Dorchester bounded on the north by Columbia, Olney, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Back street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton, and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by the old boundary line between Roxbury and West Roxbury and Seaver street, on the east by Blue Hill avenue and Back street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief in Command.	COMPANIES IN DISTRICT.					
		Engines.	Chemical Engines.	Hook and Ladder.	Hose.	Combination Wagons.	Water Towers.
1	Peter F. McDonough . .	5, 9, 11, 40	7	*2			
2	C. H. W. Pope	27, 32, 36	9	*9	3		
3	John F. Egan	8, 25, 31	. . . .	*8, 14			
4	Wm. T. Cheswell	*4, 6, 10	1, 11	1	. . . .		1
5	John F. Ryan	7, *26, 35	2	17			
6	John A. Mullen	*1, 2, 15, 38, 39, 43	8	5	. .	2	
7	Patrick E. Keyes	*3, 22, 33	4	3, 13, 15	. . . .		2
8	John Grady	*13, 14, 37	3	12	7		
9	Edward H. Sawyer . . .	12, 21, 23, 24	10	*4			
10	Williston A. Gaylord . .	16, 17, *18, 19, 20	. . . .	6, 7	. .	1	
11	Nathan L. Hussey	29, 34, *41	6	11			
12	Lewis P. Abbott	*28, 30, 42, 45	5	10, 16			

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner :

ENGINE-HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Dorchester street	5,698	
2 . . .	Cor. of O and Fourth streets .	4,000	
3 . . .	Bristol st. and Harrison ave. .	4,000	Ladder No. 3 in this building.
4 . . .	Bulfinch street	6,098	Chemical Engine No. 1, Lancers' Armory, and water-tower in this building.
5 . . .	Marion street, E.B.	1,647	
6 . . .	Leverett street	2,327	
7 . . .	East street	1,893	
8 . . .	Salem street	2,568	
9 . . .	Paris street, E.B.	4,000	Ladder No. 2 in this building.
10 . . .	River street	1,886	
11 . . .	Saratoga and Byron streets . .	10,000	
12 . . .	Dudley street	7,161	
13 . . .	Cabot street	4,305	
14 . . .	Centre street	5,627	
15 . . .	Dorchester avenue	2,843	
16 . . .	River street, Dorchester Dist.,	12,736	Ladder No. 6 in this building.
17 . . .	Meeting-house Hill, Dorchester Dist.	9,450	Ladder-house No. 7 on this lot.
18 . . .	Harvard street, Dor. Dist. . .	10,225	
19 . . .	Norfolk street, " . . .	7,683	
20 . . .	Walnut street, " . . .	9,000	
21 . . .	Boston street, " . . .	9,355	
22 . . .	Dartmouth street	4,463	
23 . . .	Northampton street	3,445	
24 . . .	Cor. Warren and Quincy sts. .	4,186	
25 . . .	Fort Hill square	4,175	Ladder No. 8 and Ladder No. 14 in this building.
26 . . .	Mason street	6,385	Engine No. 35 in this building.
27 . . .	Elm street, Charlestown Dist.,	2,600	
28 . . .	Centre street, W. Roxbury District	10,377	Ladder No. 10 in this building.
29 . . .	Chestnut Hill ave., Brighton District	14,356	Ladder No. 11 in this building.
30 . . .	Mt. Vernon street, W. Roxbury District	16,275	
32 . . .	Bunker Hill street	8,000	
33 . . .	Cor. Boylston and Hereford streets	5,646	Ladder No. 15 in this building.

ENGINE-HOUSES. — *Concluded.*

	Location.	No. of feet in lot.	Remarks.
No. 34 . . .	Western ave., Brighton . . .	4,637	
36 . . .	Monument street	5,668	
37 . . .	Cor. Longwood and Brookline avenues	5,400	Chem. Eng. 3 in this building.
38-39 .	Congress street	4,000	
40 . . .	Sumner st., East Boston . . .	4,010	
41 . . .	Harvard ave., near Cambridge street, Brighton District . .	6,112	Chem. Eng. 6 in this building.
42 . . .	Washington street, between Atherton and Beethoven . .	3,848	Chem. Eng. 5 in this building.
43 . . .	Andrew square	5,225	
45 . . .	Poplar st., cor. Washington, W. Roxbury	14,729	Ladder No. 16 in this building.
CHEMICAL-ENGINE HOUSES.			
1 . . .	Bulfinch street		See Engine-house 4.
2 . . .	Church street	3,412	
3 . . .	Cor. Longwood and Brookline avenues		See Engine-house 37.
4 . . .	Shawmut avenue	889	
5 . . .	Washington street, between Atherton and Beethoven . .		See Engine No. 42.
6 . . .	Harvard ave., near Cambridge street, Brighton District . .		See Engine No. 41.
7 . . .	Chelsea street, East Boston .	1,346	
8 . . .	B street	1,804	
9 . . .	Main street		See Ladder-house 9.
10 . . .	Eustis street	700	
11 . . .	North Grove street	3,918	

HOSE-HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 3 . . .	Winthrop street	5,230	
7 . . .	Culvert street		On leased land.

COMBINATION-WAGON HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Dorchester avenue, Ashmont .	4,875	
2 . . .	Fourth street	3,101	

HOOK-AND-LADDER HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Friend street	1,676	
2 . . .	Paris street, East Boston		See Engine-house 9.
3 . . .	Harrison avenue		See Engine 3.
4 . . .	Dudley street	3,923	
5 . . .	Fourth street	2,469	
6 . . .	River street, Dorchester		See Engine-house 16.
7 . . .	Meeting-house Hill		See Engine 17.
8 . . .	Fort Hill square		See Engine Co. 25.
9 . . .	Main street, Charlestown	2,430	Chemical 9 in this building.
10 . . .	Centre street, W.R.		See Engine-house 23.
11 . . .	Chestnut Hill ave., Brighton District		See Engine-house 29.
12 . . .	Culvert street		On leased land.
13 . . .	Washington, near Dover street,	1,007	
14 . . .	Fort Hill square		See Engine-house 25.
15 . . .	Boylston, cor. Hereford street,		Engine 33 in this building.
16 . . .	Roslindale		See Engine 45.
17 . . .	Harrison avenue	2,250	

Fuel-house, Salem street, 417 feet of land.

Fuel-house, Main street, Charlestown, 1,592 feet of land.

Headquarters Building and Repair-shop, corner of Albany and Bristol streets, 20,547 feet.

Water Tower No. 2 and wrecking wagon are in Headquarters Building.

4,350 feet of land on Tremont street on which quarters are now building for Ladder 12 and Hose 7.

5,624 feet of land on Washington street, Dorchester, purchased as a site for a ladder-house.

STEAM FIRE-ENGINE COMPANIES.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Amount of Water delivered at 300 revolutions per minute.
1	Dorchester, near Fourth, S.B.	Amoskeag Mfg. Co.	Sept. 17, 1872	7 $\frac{3}{4}$	4 $\frac{1}{2}$	8	Double. 630 gallons.
2	Fourth, cor. O, S.B.	Manchester Loco. Works..	Nov., 1890	6 $\frac{1}{2}$	4	8	Double. 496 gallons.
3	Harrison ave., cor. Bristol	Clapp & Jones Mfg. Co.	Aug. 22, 1890	9	5 $\frac{1}{2}$	8	Double. 961 gallons.
4	Bulfinch st.	American Fire Eng. Co.	Feb. 22, 1893	9	5 $\frac{1}{2}$	8	Double. 961 gallons.
5	Marion st., E.B.	Amoskeag Mfg. Co.	Nov., 1869	7 $\frac{3}{4}$	4 $\frac{3}{4}$	8	Double. 593 gallons.
6	Leverett st.	Silsby Mfg. Co.	April, 1890	.....	Rot ary.	.....	700 gallons.
7	East st.	American Fire Eng. Co.	June, 1895	9	5 $\frac{1}{2}$	8	Double. 961 gallons.
8	Salem st.	Freeman & Juckett.....	April 26, 1869	7 $\frac{1}{4}$	4 $\frac{1}{2}$	8	Double. 630 gallons.
9	Paris st., E.B.	Huneman & Co.	Oct. 14, 1872	7 $\frac{1}{4}$	4 $\frac{1}{2}$	8	Double. 630 gallons.
10	Mount Vernon, cor. River st.	Manchester Loco. Works..	March 1, 1882	6 $\frac{1}{4}$	4 $\frac{1}{2}$	8	Double. 561 gallons.
11	Saratoga, cor. Byron st., E.B.	Amoskeag Mfg. Co.	April 9, 1873	6 $\frac{1}{4}$	4 $\frac{1}{2}$	8	Double. 527 gallons.
12	Dudley st.	Manchester Loco. Works..	March 27, 1882	6 $\frac{1}{4}$	4 $\frac{1}{2}$	8	Double. 561 gallons.
13	Cabot st.	Clapp & Jones Mfg. Co.	April 1, 1890	8 $\frac{1}{4}$	5	7	Double. 691 gallons.
14	Centre st.	Amoskeag Mfg. Co.	Sept. 17, 1870	7 $\frac{3}{4}$	4 $\frac{3}{4}$	8	Double. 593 gallons.
15	Dorchester ave. and Broadway ..	American Fire Eng. Co.	Feb., 1893	9	5 $\frac{1}{2}$	8	Double. 961 gallons.
16	Temple st., Dorchester	Silsby Mfg. Co. ....	.....	.....	Rot ary.	.....	700 gallons.
17	Meeting-House Hill, Dorchester..	Amoskeag Mfg. Co.	Sept. 1, 1870	7 $\frac{3}{4}$	4 $\frac{3}{4}$	8	Double. 593 gallons.
18	Harvard st., Dorchester	Manchester Loco. Works..	Nov., 1890	6 $\frac{1}{4}$	4	8	Double. 496 gallons.
19	Norfolk st., Dorchester	Clapp & Jones Mfg. Co.	Dec. 5, 1891	7	4 $\frac{3}{4}$	7	Double. 524 gallons.
20	Walnut st., Dorchester	Manchester Loco. Works..	Nov., 1890	6 $\frac{1}{4}$	4	8	Double. 496 gallons.
21	Boston st., Dorchester	Clapp & Jones Mfg. Co.	Dec. 10, 1893	7	4 $\frac{3}{4}$	7	Double. 524 gallons.
22	Dartmouth st.	Silsby Mfg. Co.	Aug. 7, 1882	.....	Rot ary.	.....	700 gallons.
23	Northampton st.	Silsby Mfg. Co.	Sept. 12, 1890	.....	Rot ary.	.....	700 gallons.
24	Warren, cor. Quincy st.,	Clapp & Jones Mfg. Co.	Feb. 24, 1885	7	4 $\frac{3}{4}$	7	Double. 524 gallons.

STEAM FIRE-ENGINE COMPANIES. — *Continued.*

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Amount of Water delivered at 309 revolutions per minute.
25	Fort Hill sq.	Clapp & Jones Mfg. Co. ...	Nov., 1890	9	5½	8	Double. 961 gallons.
26	Mason st.	La France Fire Eng. Co. ...	June, 1895	8½	5½	9	Double. 935 gallons.
27	Elm st., Charleston.	Amoskeag Mfg. Co.	July 1, 1872	7½	4½	8	Double. 630 gallons.
28	Centre st., W. Roxbury	Silsby Mfg. Co. ....	.....	.....	.....	Rot ary.	..... 700 gallons.
29	Chestnut Hill ave., Brighton.	Hunneman & Co.	Jan. 1, 1874	7½	4½	8	Double. 599 gallons.
30	Mount Vernon st., W. Roxbury . .	Clapp & Jones Mfg. Co. ...	Oct. 9, 1891	7	4½	7	Double. 524 gallons.
31	(Out of service) Fire-boat.	Clapp & Jones Mfg. Co. ...	July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown . . .	Manchester Loco. Works. . .	March 28, 1884	6½	4½	8	Double. 561 gallons.
33	Boylston st.	Silsby Mfg. Co.	Feb. 20, 1888	.....	.....	Rot ary.	..... 700 gallons.
34	Western ave., Brighton	Hunneman & Co.	Jan. 12, 1871	7½	4½	8	Double. 581 gallons.
35	Mason st.	Clapp & Jones Mfg. Co. ...	Aug. 9, 1890	9	5½	8	Double. 961 gallons.
36	Monument st., Charlestown.	Manchester Loco. Works. . .	Dec., 1890	6½	4	8	Double. 496 gallons.
37	Longwood ave.	Amoskeag Mfg. Co.	July 1, 1867	7½	4½	8	Double. 593 gallons.
38	Congress st., S.B.	Clapp & Jones Mfg. Co. ...	Nov., 1890	9	5½	8	Double. 961 gallons.
39	Congress st., S.B.	Clapp & Jones Mfg. Co. ...	April 1, 1890	8½	5	7	Double. 691 gallons.
40	Summer st., E.B.	Silsby Mfg. Co. ....	.....	.....	.....	Rot ary.	..... 700 gallons.
41	Harvard ave., Brighton	Clapp & Jones Mfg. Co. ...	Feb., 1893	7	4½	7	Double. 524 gallons.
42	Egleston sq., W. Roxbury	Silsby Mfg. Co.	Feb., 1893	.....	.....	Rot ary.	..... 550 gallons.
43	Andrew sq., S.B.	Clapp & Jones Mfg. Co. ...	March 3, 1893	7	4½	7	Double. 524 gallons.
44	India wharf (Fire-boat)	American Fire Eng. Co.	Aug., 1895	12½ H. P. 18 L. P.	10	10	2 sets of pumps 6,520 gallons.*
45	Poplar st., W. Roxbury	American Fire Eng. Co.	Jan., 1895	7	4½	7	Double. 524 gallons.

* At 225 revolutions per minute.

In Reserve.

A	Old 15	Amoskeag Mfg. Co.....	Dec.,	1869	7½	4½	8	Double.	630 gallons.
B	Old 10	Amoskeag Mfg. Co.....	Feb.,	1870	7½	4½	8	Double.	593 gallons.
C	Old 39	Manchester Loco. Works..	Dec.,	1879	6½	4½	8	Double.	561 gallons.
D	Old 4 (Crane neck)	Manchester Loco. Works..	May,	1886	6½	4½	8	Double.	561 gallons.
E	Old 4 (Straight frame)	Amoskeag Mfg. Co.....	Nov.,	1867	7½	4½	8	Double.	630 gallons.
F	Old 25	Silby Mfg. Co.....	July,	1884	.....	Rotary.	.....	.....	700 gallons.

Engine 31, "Old Fire-boat," is now out of service at Brook's wharf, East Boston, waiting for funds to repair, equip, and maintain.

FIRE DEPARTMENT.

17

HOOK-AND-LADDER COMPANIES.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.	Number of Ladders.
1.....	Warren square.....	Abbott-Downing Co.....	December 20, 1890.	<i>Lbs.</i> 8,800	12
2.....	Paris st., E.B.....	"	April 20, 1891.	9,805	12
3.....	Harrison ave., cor. Bristol st.....	"	June 2, 1886.	9,535	22
4.....	Dudley street, Highland District..	La France Fire-Engine Co., Elmira, N.Y.....	April 25, 1884.	8,365	Hayes Extension.
5.....	Fourth street, near Dorchester...	Hunnehan & Co.....	March 3, 1870.	6,050	17
6.....	Temple street, Dorchester.....	"	August 18, 1873.	6,043	19
7.....	Meeting-House Hill.....	Freeman and Juckett.....	January, 1869.	6,560	14
8.....	Fort Hill square.....	Abbott & Downing.....	January 30, 1890.	9,535	14
9.....	Main street, Charlestown.....	Leverich & Co., N.Y.....	October 6, 1872.	5,820	19
10.....	Centre street, Jamaica Plain.....	Hunnehan & Co.....	December 21, 1870.	5,400	12
11.....	Chestnut Hill avenue, Brighton...	"	April 13, 1872.	8,065	14
12.....	Culvert street, Highland District..	Ryan Bros.....	July 31, 1880.	6,850	15
13.....	Washington street, near Dover...	La France Fire-Engine Co., Elmira, N.Y.....	March 12, 1890.	6,800	Hayes Extension.
14.....	Fort Hill square.....	Fire Extinguisher Manufacturing Co., Chicago.....	January 30, 1893.	10,000	Extension.
15.....	Boylston street.....	Fire Extinguisher Manufacturing Co., Chicago.....	April 28, 1888.	10,600	Extension.
16.....	Rosindale.....	Repair-shop.....	September, 1888.	5,400	15
17.....	Harrison avenue.....	Preston Co., Chicago.....	April 29, 1891.	11,975	Extension. 87 feet.

HOOK-AND-LADDER TRUCKS, — In Reserve.

Description.	Builders.	Weight as drawn to Fires.
Relief C, formerly old No. 2.		
Relief A, old 3.....	Hunneman & Co.....	<i>Lbs.</i> 8,375
“ B, old 8.....	Repair-shop.....	
Aerial Ladder.....	Aerial Ladder Co.....	6,000
One new.....	Abbott Downing Co.....	9,535
Old Ladder 11.....	Hunneman & Co.....	8,065

WATER TOWERS.

Number.	Location.	Builders.	Put in Service.	Weights as drawn to Fires.
1.....	Bulfinch street.....	Kansas City Fire Dept. Supply Co...	May 17, 1890.	<i>Lbs.</i> 10,000
2.....	Bristol street.....	Kansas City Fire Dept. Supply Co...	Dec. 18, 1893.	10,000

NEW APPARATUS PURCHASED DURING THE YEAR.

1	third-size Clapp & Jones engine.
1	first-class " " "
1	first-size La France "
2	double-tank chemical engines.
3	two-horse hose-wagons.
2	coal-wagons.
3	District Chief's wagons.
1	fire-boat.
1	manure-wagon.

HOSE.

Amount of hose purchased and condemned during the year:

Purchased.		Condemned.
Leading cotton,	7,000 feet.	10,750 feet.
" rubber,	1,500 "	350 "
Chemical,	2,000 "	650 "
Suction,	214 "	120 "
Totals,	10,714 "	11,870 "

Amount of hose in use and in storehouse February 1, 1896:

	In Use.	In Storehouse.
Cotton,	70,150 feet.	3,350 feet.
Rubber,	4,650 "	4,200 "
Chemical,	5,750 "	1,250 "
Suction,	998 "	164 "
Totals,	81,548 "	8,964 "

HORSES.

Purchased during the year	.	.	.	63
Sold or exchanged	.	.	.	40
Died	.	.	.	7
Killed, for cause	.	.	.	4
Number in the department	.	.	.	271

WATER AND HYDRANTS.

The total number of hydrants in the city February 1 was 6,756. In addition to these hydrants, there are 224 fire reservoirs in different sections of the city that contain from 300 to 500 hogsheads of water, and can be used in an emergency.

The number of hydrants established and abandoned during the year is as follows :

DISTRICT.	ESTABLISHED.					ABANDONED.					Net Increase.
	Lowry.	Post.	Boston Lowry.	Boston.	Total.	Lowry.	Post.	Boston Lowry.	Boston.	Total.	
Boston (City Proper)	8	6	0	1	15	3	0	2	6	11	4
South Boston	7	6	2	1	16	1	1	1	10	13	3
East Boston	1	1	1	0	3	0	0	0	0	0	3
Roxbury	6	32	13	1	52	7	1	2	3	13	39
Dorchester	4	79	35	0	118	1	0	5	2	8	110
West Roxbury	4	41	17	0	62	0	1	6	2	9	53
Brighton	0	28	5	0	33	1	1	0	2	4	29
Gallop's Island	0	1	0	0	1	0	0	0	0	0	1
Charlestown	3	1	0	0	4	1	1	0	0	2	2
Totals	33	195	73	3	304	14	5	16	25	60	244

Total Number of Hydrants in use January 31, 1896.

	Lowry.	Post.	Boston Lowry.	Boston Y.	Boston.	Total.
Boston (City Proper)	704	283	58	....	454	1,499
South Boston	220	102	23	1	247	593
East Boston	140	104	24	....	129	397
Roxbury	661	261	77	....	87	1,086
Dorchester	580	550	226	....	59	1,415
West Roxbury	130	546	183	....	44	903
Brighton	78	304	64	....	30	476
Brookline	5	....	....	....	3	8
Chelsea . . . . .	....	....	....	....	7	7
Quincy . . . . .	....	7	....	....	....	7
Deer Island . . . . .	....	18	....	....	....	18
Long Island . . . . .	....	6	....	....	....	6
Thompson's Island . . . . .	....	2	....	....	....	2
Gallop's Island . . . . .	....	1	....	....	....	1
Rainsford Island . . . . .	....	....	....	....	....	1
Charlestown	217	75	37	....	9	338
Totals	2,735	2,259	692	1	1,069	6,756

FIRE-ALARM BRANCH.

The woodwork and other fittings for the new office were completed, and the apparatus placed in position, early in the year, and wiring for the same was commenced on the 15th of March.

The extent of this work, which was done by the contractor, and the care required to be exercised in carrying it out, necessarily consumed considerable time, and it was not completed until the middle of May. More than 50,000 feet of wire were used in making the connections. The office is constructed for eighty circuits, which are divided into three systems: Fifty circuits are equipped with apparatus for receiving alarms from the boxes, twenty for striking them out on the bells and gongs, and ten for operating the box-gongs in department houses.

The battery-room is equipped with stands having sufficient capacity to hold fifty-six motor-generators, a power service-board so constructed that current for driving the motors may be taken from four independent sources, and a board which provides for a distribution of the generator currents in such a manner that any desired combination can be made of the eighty circuits at any time without interference with the operation of the system.

On the 20th of May the old plant at the City Hall, which had done effective service for more than thirty years, ended its official existence, and the new office was duly installed.

The transfer of the circuits was made in three hours from the time the first connection was made, careful preparations for making the changes having been made previously.

Notwithstanding the fact that the new plant was equipped with entirely new apparatus, the different construction and operation of which involved a complete change in the methods to be employed, no material interruption to the successful working of the system was experienced at the time of its installation, and the minor faults in construction which developed later being eliminated, it was soon placed on a perfect working basis, and so continued up to the present time.

The dynamo service, which has been referred to as an experiment, in previous reports, has demonstrated by results that a great improvement has been made in this respect, and

the advantages gained by substituting it for the old form of batteries have become more clearly apparent by its continued use.

A new switch-board, constructed for ninety circuits, supplied with three banks of connecting plugs and three sets of transmitters and telephones, has been leased from the New England Telephone Company. It is equipped with all the appliances used in modern exchange business, and by its use the telephone work of the department has been greatly facilitated.

The reconstruction of overhead circuits during the year has been done chiefly in Roxbury and West Roxbury.

In these districts three new bell circuits have been built, and box circuits 7, 8, 13, and 23 partially reconstructed.

Circuit No. 74, in West Roxbury, has been extended to the house of Engine No. 30, and a box-gong of the regular pattern placed in quarters and connected for service.

The wires running along the Parkway in Jamaica Plain have been replaced by an underground cable 2,977 feet in length, containing 17,862 feet of conductors.

Circuits running to Charlestown and Brighton, which were rebuilt in 1894, have been divided, and connected independently in the new office. By this division a new box-gong circuit was created, and the apparatus houses in Brighton connected therewith.

The box-gong service is now extended to the entire department.

All the boxes in Brighton and Charlestown are now connected into circuits by themselves, and the bells and gongs into new circuits, which are used exclusively for striking alarms.

A similar arrangement has been effected by new construction in South Boston, which completes the elimination of the bells and gongs from the box circuits throughout the entire system.

The alarm service has been extended by placing a bell, formerly used on the Phillips School-house, in a new tower which was constructed on the house of Engine No. 41 at Allston, and gongs into the office of Commissioner of Wires, house of District Chief Hussey, Austin & Gove's office, East Boston, and the pumping-station on Wayne street.

Sixteen new circuits have been created, and placed entirely underground. Three of these are connected with lamp-post boxes, and the others with telephones located therein and various department houses. One new overhead telephone circuit has been built, and the service extended by placing telephones in the residence of the Chief of Department,

house of Engine 25, Veterinary Surgeon, Hook and Ladder No. 7, head-room at City Hall, and basement terminal room at Bristol street, Headquarters Building.

Stands and telephones have also been placed on the various desks at headquarters.

The rebuilding of Chelsea bridge has occasioned much work for this branch during the year, as it has been necessary to make temporary changes in the arrangement of the wires from time to time as the work progressed. Wires and cables have been placed, and submarine cables taken up and relaid to meet the existing conditions, the final work being completed late in the season.

The poles formerly supporting the wires at this point have been abandoned, with the exception of some iron posts on the Boston end as far as the draw, and the circuits are now carried on these standards and along the timbers, under the bridge, through a 19-conductor cable 2,600 feet in length.

Submarine cables have been taken up at bridges on Federal, Congress, and Tenean streets and Mt. Washington avenue.

The cable on Federal street was removed on account of becoming defective, and the others because routes of circuits were changed in such a manner that their continued use at those localities was rendered unnecessary. The damaged cable at Federal street was replaced by one of these, and the other two were used at Chelsea bridge.

A new cable, 300 feet in length, has also been laid at Meridian-street bridge.

A new frame has been built to support the bell in the tower on the Noble School-house, on Princeton street, East Boston, and the usual routine work has been done, repairing circuits and making such changes in their locations as have been made necessary by conditions which have developed from time to time in various parts of the city. Six new boxes have been established and connected with the service during the year.

Ninety miles of No. 9 wire and 16,199 feet of Clark and Kerite wire, 1,881 feet 10-conductor, and 2,668 feet 19-conductor overhead cable have been used in completing the work herein referred to.

Two cables, with 10 and 19 conductors, respectively, have been run through the subway from headquarters to the apparatus repair-shop. Nine new roof structures have been built, 19 poles set, 39 structures removed, and 12 poles taken down since last report.

The total amount of old wire taken down during the year is 589,230 feet: of this amount 195,000 feet were removed

from the underground district for 1895, 204,700 feet from the 1894 district, and the remainder from other parts of the city.

Plans were made and cables purchased early in the year for completing the underground construction in the district prescribed for 1895. Before any part of this work had been done, however, a notice was received from the Commissioner of Wires that it would be necessary to make some changes in the original plans on account of conditions which were not considered at the time of the first arrangement. In consequence of this request the 61-conductor cable which was laid in 1894 was drawn out of the ducts in Tremont street, from Compton to LaGrange streets, through LaGrange and Beach streets to Harrison avenue, amounting to 3,659 feet.

The cable thus removed was laid in other places entirely outside of the 1895 district, and a cable containing 19 conductors was bought and run in its place from the starting-point on Tremont street to a terminal box in the house of Police-station No. 4, on LaGrange street. In order to conform to the new arrangements of the Wire Department it also became necessary to use smaller cables in some other portions of the proposed routes in the district; consequently a cable with 37 conductors was purchased and laid, leaving the 61 conductors to be placed outside the district in connection with the one which was drawn out as before mentioned.

The total amount of cable of all kinds laid during the year, including the 61 conductor taken up from Tremont street, is 27,849.5 feet.

These cables vary in their capacity, containing from 10 to 61 conductors, and have been placed as follows:

Kerite and okonite, 61 conductors, on Tremont, Berkeley, Beacon, Charles, Mt. Vernon, Joy, Myrtle, Derne, Bowdoin, Cambridge, and Court streets, Tremont row, Brattle, Exchange, State, and Congress streets, — 13,005 feet.

Kerite, 37 conductors, on Harrison avenue, Chauncy, Arch, Franklin, Pearl, Atlantic avenue, and High streets, — 5,503.5 feet.

Kerite, 19 conductors, on Tremont and LaGrange streets, — 3,408 feet.

Clark, 10 conductors, on Winter, Essex, Appleton, and Eliot streets, including short leads and side connections, — 2,954.8 feet.

Safety, 6 conductors, on Parkway, Jamaica Plain, — 2,977 feet.

They have been laid in ducts belonging to the New England Telephone Company, with the exception of 3,334 feet, which are placed in ducts constructed by this department.

Twenty-one boxes and 13 department houses have been connected with the underground service in the past year.

Nine of the boxes are located on streets, and the others are inside theatres, stores, and other buildings.

Underground telephone service has been extended to boxes 42, 56, 57, 61, 72, and 85, all of which are placed on lamp-posts in their respective locations.

The total length of cables now underground is 55,900 feet.

Total length of conductors, 2,313,984 feet.

They are laid in ducts, of which 43,520.8 feet belong to the Telephone Company and 7,890 feet to this department.

The fire-alarm ducts are contained in 4,015 feet of conduits, about one-half of which were built in the past year.

Notwithstanding that the changes in the original plans above noted occasioned a large amount of extra labor and an increased expense in doing the underground work, it was all completed within the time required by law, and all the overhead wires and abandoned structures have been taken down.

The benefit of this extra work will be fully experienced when the territory in which it was done shall be included in a district to be designated by the Commissioner of Wires at some future time.

The service has been uniformly successful during the year, no accidents to any portion of the cables having occurred of sufficient magnitude to materially interfere with their work.

Neither have the overhead wires in the outlying districts been seriously affected by storms at any time, and, everything being considered, it may be said that the system has made a good record for itself since the last report.

The force employed is as follows :

Superintendent.

BROWN S. FLANDERS.

Assistant Superintendent.

CYRUS A. GEORGE.

Operators.

CHARLES M. CHAPLIN,
UZZIEL PUTNAM,
JAMES L. CROWLEY,

JAMES L. GETHINS,
RICHARD DONAHUE,
JONA. M. MORRIS.

Assistant Operators.

JOHN B. JEFFERS,

JOHN FLAVELL.

Care of Dynamos.

JOHN GALWAY.

Foreman of Construction.

HIRAM W. CHERRINGTON.

Repairers.

G. J. H. GUTERMUTH,	E. M. ILLINGWORTH,
WM. H. BARKER,	JERRY HURLEY,
GRANVILLE S. MENDELL,	DANIEL F. McCARTY,
ISSACHAR WELLS,	PETER M. KENDRICK.

A constant watch is kept at the headquarters, Bristol street, night and day, by the operators. Each set of operators have assigned to them certain hours of duty, during which time they are responsible for the correct working of the apparatus in giving alarms, and all testing of the circuits and other details pertaining to the service. No operator is permitted to sleep during his watch, unless expressly relieved by some one else, and by consent of the Superintendent.

Each operator is accountable to the Superintendent for any mistakes that may occur at the office during his hours of duty.

An accurate account is kept of the time of giving each alarm, and of the station from which it originates, and all other necessary information.

There are 572 fire-alarm boxes now in service.

The following boxes are private property: 38 duplicate, 115, 149, 152, 227, 228, 244, 271, 279, 281, 283, 299, 422, 442, 443, 445, 446, 447, 448, 449, 511, 533, 617, 623, 624, 626, 629, 698, 711, 714, 715, 716, 718, 722, 723, 724, 725, 726, 727, 728, 729, 731, 732, 733, 735, 737, 738, 739, 741, 742, 744, 745, 746, 766, 778, 779, 789, 791, 792, 794, 795, 796, 797, 799, 816, 838, 842, 919, 927, 974.

STOCK AND FIXTURES.

Magnetic fire-alarm apparatus, the estimated value of which is \$171,000. Working lines of wire, about 1,000 miles; signal-boxes in use, 572; striking-machines, 24; gongs, 125; box-gongs, 75; tappers, 3; local registers in department houses, 50; two clocks; two four-dial repeating-machines for striking signals; one old three-dial ditto; relays, 70; 1 fifty-pen register; 1 ten-pen ditto; chime-bells, 10; other bells, 21; telegraph keys, 70; main circuit annun-

ciators, 70; local ditto, 70; fuse-boards, 2; telephones in use, 103; 2 switch-boards; 83 galvanometers; 1 voltmeter; 1 mil-ammeter; 1 rheostat and bridge; 1 indicator; 84 battery rheostats; 27 motor-generators; 2 generator stands; 1 power-service board; 1 distributing board; 1 fire apparatus covering map; 2 portable rheotropes; 1 typewriter; 1 copying-press; 1 safe; 1 chronometer; 1 set telegraphic apparatus in Superintendent's house; 5 sets telegraphic apparatus in assistants' houses; brackets, wire, insulators, etc., office furniture, bedsteads, bedding, and sundry small articles.

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells:

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.

Bunker Hill School-house, Charlestown, 2,009 lbs., owned by city.

Chapman School-house, Entaw street, East Boston, steel, 3,109½ lbs., owned by city.

City Hall, Charlestown, composition, 3,600 lbs., owned by city.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.

Engine-house No. 17, Meeting-House Hill, Dorchester, composition, 4,000 lbs., owned by city.

Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs., owned by city.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.

Engine-house No. 21, Boston street, Dorchester, composition, 3,026 lbs., owned by city.

Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by city.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house No. 30, West Roxbury, 300 lbs., owned by city.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.

Engine-house No. 40, Orleans street, East Boston, composition, 817 lbs., owned by city.

Engine-house No. 41, Allston, composition, 900 lbs., owned by city.

Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.

Faneuil Hall, steel, 5,816 lbs., owned by city.

Lewis School-house, Dale street, Boston Highlands, composition, 3,104 lbs., owned by city.

Maverick-street Church, East Boston, composition, 2,000 lbs.

Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.

Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.

Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.

Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

Fire-alarm Repair-shop, bell formerly used on house of Chemical Engine 5 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 4 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 6 ; and two small bells from other locations.

Engine-house No. 1, Dorchester street, South Boston, composition, 800 pounds.

Engine-house No. 2, composition, 800 lbs.

George-street School-house, Boston Highlands, composition, 4,160 lbs.

Hook-and-Ladder House, No. 4, Dudley street, Boston Highlands, composition, 3,509 lbs.

Lawrence School-house, B street, South Boston, steel, 3,400 lbs.

Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.

Quincy School-house, Tyler street, composition, 2,941 lbs.

Smith-street School-house, Highlands, composition, 4,083 lbs.

Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.

Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.

Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.

Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, forty in number, are taken care of by the Fire Department :

City Proper.

Arlington-street Church.
Charles-street Church.
Christ Church, Salem street, owned by city.
Commercial Wharf.
Lynde-street Church.
Odd Fellows Hall, Tremont street, owned by city.
Old South Church, owned by city.
Old State-House, owned by city.
Park-street Church.
Suffolk County Jail, owned by city.
St. Stephen's Church, Clark street, owned by city.
Shawmut-avenue Church.
Tremont M. E. Church, owned by city.
Young Men's Christian Union, owned by city.

South Boston.

Bigelow School-house, owned by city.
Gaston School-house, owned by city.
Lincoln School-house, owned by city.
Phillips Church, owned by city.
St. Augustine Church, Dorchester street, owned by city.
Ticknor School-house, Washington Village, owned by city.

East Boston.

Central Square Church.
London-street Church, owned by city.
Lyceum Hall, owned by city.
Trinity Church, owned by city.
Orient Heights Church, owned by city.

Boston Highlands.

Winthrop-street Church, owned by city.
West End stables, Tremont street, owned by city.
Roxbury High School, owned by city.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.
Neponset Church.

Tileston School (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by city.
Harvard Hill Church.
High School-house, owned by city.
Unitarian Church.

West Roxbury.

Dr. Strong's Church.
Unitarian Church.

Brighton.

Bennett School-house, owned by city.

After a year's experience here, I can heartily commend the officers and men of the department for uniform energy and intelligence in their work, and earnest endeavor to understand and carry out the requirements of the Commission.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.

ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

YEAR 1896-7.



BOSTON:
MUNICIPAL PRINTING OFFICE.
1897.



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OFFICE OF THE FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 15, 1897.

His Honor JOSIAH QUINCY, *Mayor*:

SIR: Again I can with much satisfaction call your attention to the result of our work during the past year, as shown by the figures of losses sustained, our record being better than that of our sister cities, population considered; but, while the conflagration, which may at any time attack us, has not as yet assumed proportions beyond our control, we can only hope that continued good fortune may attend our efforts. As far as our finances would allow, after repairing and keeping the houses in good order, the department has been strengthened by additional equipment and apparatus; and, in my opinion, further improvement in that direction should be made before the department is enlarged by additional companies, excepting the one contemplated at Grove Hall, where land purchased for the purpose by the city is awaiting occupancy, and where the neighborhood needs protection. Much expert advice has been received concerning the fire-alarm branch, and all but one of the practical suggestions have been adopted, the one exception calling for some \$150,000, and relating to work which will be done by degrees as the wires are placed under ground. My opinion, formed during my first year's experience concerning the excellence and efficiency of this branch, has only been confirmed by further knowledge of it; for, while I cannot judge of the technical merits and faults of the system, I do well know that in doing its work of receiving and giving out alarms the practical results have been in every way most satisfactory, all statements to the contrary notwithstanding.

Besides the need of a piece of apparatus (combination wagon or ladder truck) for the neighborhood of Grove Hall, Dorchester, I beg leave to urge the necessity of a new and enlarged house in place of that now occupied by Engine 30 in West Roxbury, not only to provide decent quarters for the men and engine, but in order to make possible the strengthening of equipment much needed by this growing and widely scattered community. Nothing has been done for Ladder Company 13, on Washington, near Dover Street, the house of which is not only unsafe but a disgrace to the department and the city, as well as being too small for a company properly equipped for the work required. Again it is my duty to call your attention to the crying want of a veterinary hospital, and to ask that the \$11,400 saved from the appropriation for building the new house for Ladder 12 on Tremont Street be utilized for that purpose. But all possible improvement in apparatus and equipment may in some cases be of little avail without the enforcement of more stringent building laws, in the past opposed by the very citizens who ought to be the first to insist upon the best.

FIRE DEPARTMENT.

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TABLE No. 1.

MONTHS.	ALARMS RECEIVED.						LOSS.		INSURANCE.		ALARMS.				BUILDINGS.				Out of City.	Wharf, Vessels, Coal-piles, Electric Cars, Bonfires, Rubbish, etc.				
	FROM WHOM.						Buildings.	Contents.	Buildings.	Contents.	Fire.	TELEGRAPH			No Damage.	Slight Damage.	Considerable D'ge.	Totally Destroyed.						
	Fire patrol.	Members.	Police.	Citizens.	Automatic.	Unknown.						Total.												
February	5	7	17	127	6	...	162	\$114,019	\$189,115	\$1,430,357	\$1,034,500	71	1	14	76	109	6	21	36	78	13	4	2	9
March	7	4	22	145	3	2	183	158,883	143,184	1,640,425	929,050	89	5	11	78	129	7	15	43	85	18	...	2	14
April	2	6	23	143	12	1	187	16,561	36,457	1,253,583	156,900	76	1	9	101	101	4	25	38	61	6	4	2	45
May	2	9	20	175	2	...	208	46,441	64,449	1,314,691	495,175	98	2	7	101	146	2	13	51	86	10	4	1	37
June	10	3	32	146	3	...	194	47,165	56,509	1,383,042	566,276	63	1	8	122	97	3	18	58	43	7	1	2	65
July	14	9	58	186	5	2	274	27,296	26,640	1,031,400	312,409	104	2	7	161	139	6	13	69	72	11	5	1	106
August	1	4	16	81	4	1	107	14,711	43,977	1,357,640	469,540	52	1	5	49	78	3	11	38	41	5	2	...	9
September	4	3	9	90	5	1	112	24,042	6,492	1,223,625	841,025	50	1	8	53	75	3	14	38	37	2	4	...	11
October	2	4	11	99	8	...	124	8,300	11,819	1,262,975	245,900	57	1	4	62	85	1	18	42	36	5	4	...	15
November .....	...	9	13	100	4	...	126	18,585	27,376	782,750	490,895	55	...	10	61	84	4	11	35	48	7	2	1	16
December ..	2	15	26	168	9	...	220	96,064	71,571	1,323,350	761,400	88	1	14	117	156	3	30	69	85	8	1	2	14
January	2	9	15	138	4	1	169	29,864	115,187	819,666	530,756	76	1	8	84	121	6	20	51	74	12	2	1	12
Totals	51	82	262	1598	65	8	2066	\$601,931	\$792,776	\$14,859,504	\$6,773,826	879	17	105	1055	1320	48	209	568	746	104	33	14	353

TABLE NO. 2.

*Showing the different Causes of Fires and Alarms, from
February 1, 1896, to February 1, 1897.*

Alarms, accidental, automatic	25
“ needess	105
“ false	17
“ out-of-town	14
Ashes, hot, in wooden receptacle	41
Boiling over of tar or fat	22
Bonfires, grass, rubbish, etc.	353
Careless use of lamps, candles, etc.	39
“ “ “ fire	9
“ “ “ pipe and cigars	56
Chimneys, soot burning	78
“ defective	40
Clothes too near stove	6
Defective flue	14
“ stove-pipe	3
“ grate	5
“ furnace	2
Electric motor igniting car	14
“ wires	53
Explosion and igniting of chemicals	16
Fireworks	43
Friction	9
Fumigating	3
Gas, explosion of	4
“ ignition of leaky pipes	11
“ jet setting fire	76
“ stove, careless use of and explosion	11
Incendiary	43
“ supposed	33
Kerosene lamp, explosion or breaking	71
“ “ upsetting	48
“ stove, careless use of and explosion	62
Light mistaken for fire	12
Lightning	5
Matches and rats	26
“ careless use of	103
“ children playing with	59
Naphtha, careless use of and ignition	8
Overheated stove or furnace	59
“ steam-pipe or boiler	15
“ chimneys	12

FIRE DEPARTMENT.

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Overheated rheostat or thermostats	13
Rekindling of ruins of previous fire	3
Slacking of lime	4
Smoky chimney	31
“ furnace or stove	26
Sparks from another fire	3
“ “ furnace or stove	10
“ “ chimney	18
“ “ locomotive	42
“ “ forge	10
Spontaneous combustion	77
Steam escaping	11
Unknown	147
Water-pipes, thawing out	42
Wood in oven igniting	2

Total	2,066
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Total number of actual fires	1,721
Confined to one building	1,320
Extended to others	48
Wharves, vessels, grass, etc.	353
Out of the city.	14

BUILDINGS.

Slightly damaged	746
Considerably damaged	104
Totally destroyed	33
Not damaged	568

EXTINGUISHED BY

Extinguishers	472
Buckets of water	260
Chemical engines	241
Hydrant stream	186
Steamers	303
Police	23
Citizens	236

Total	1,721
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ORGANIZATION.

Fire Commissioner Henry S. Russell, appointed January 21, 1895; term expires May, 1898.

Benjamin F. Underhill, Jr., secretary.

CHIEF OF DEPARTMENT.

LEWIS P. WEBBER, Headquarters, Bristol street.

First Assistant Chief, JOHN W. REGAN, Headquarters, Engine-house 26, Mason street.

Second Assistant Chief and Chief of District No. 4, WM. T. CHESWELL, Headquarters, Engine-house 4, Bulfinch street.

BROWN S. FLANDERS, *Superintendent of Fire Alarms.*

CYRUS A. GEORGE, *Assistant Superintendent of Fire Alarms.*

District Chiefs.

Peter F. McDonough, Headquarters,	Ladder-house 2.
C. H. W. Pope, “	“ 9.
John F. Egan, “	“ 8.
John F. Ryan, “	Engine-house 26.
John A. Mullen, “	“ 1.
Patrick E. Keyes, “	“ 3.
John Grady, “	Ladder-house 12.
Edward H. Sawyer, “	“ 4.
Williston A. Gaylord, “	Engine-house 18.
Nathan L. Hussey, “	“ 41.
Lewis P. Abbott, “	“ 28.
Henry M. Hawkins,	<i>Superintendent of Repair Shop.</i>
Eugene M. Byington,	<i>Asst. Superintendent of Repair Shop.</i>

CLERKS.

Wm. E. Delano, M. J. Lafferty, Geo. F. Murphy, James P. Maloney.

D. J. Quinn, *Messenger.*

FORCE AND PAY-ROLL.

Commissioner	\$5,000	per annum.
Secretary	2,400	“
Chief of Department	3,500	“
First Assistant Chief	2,400	“
Second “ “	2,200	“
Superintendent of Fire Alarms	3,200	“
Assistant Supt. “ “ “	2,000	“
11 District Chiefs	2,000	“
Superintendent of Repair Shop	2,000	“
Assistant Supt. “ “ “	1,600	“
Veterinary Surgeon	1,800	“

FIRE DEPARTMENT.

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2 Clerks	\$900 per annum.
1 Clerk	1,000 "
1 Clerk	1,300 "
1 Messenger	1,000 "
1 detailed man as Clerk, Repair Shop	1,300 "
51 Captains	1,600 "
57 Lieutenants	1,400 "
43 Engineers	1,300 "
40 Assistant Engineers	1,200 "
431 Permanent men:	
288 at	1,200 "
42 "	1,100 "
46 "	1,000 "
55 "	900 "
1 Call Captain	325 "
88 Call men:	
27 at	250 "
61 "	200 "
1 Driver for Chief of Department	1.95 per day.
2 Drivers for Assistant Chiefs	1.75 "
11 Drivers for District Chiefs	1.75 "
2 Watchmen	1,000 per annum.
2 Hostlers, average	2.10 per day.

FIRE ALARM FORCE.

6 Operators	\$1,600 per annum.
2 Assistant Operators	1,200 "
1 Foreman of Construction	1,800 "
1 Dynamo Man	2.00 per day.
16 Repairers, average	2.81 "

REPAIR SHOP EMPLOYEES.

1 Engineer	\$3.00 per day.
1 Assistant Engineer	900 per annum.
1 Harness Maker	4.00 per day.
2 Painters average	3.12 "
2 Wheelwrights average	3.25 "
6 Machinists, average	3.17 "
4 Blacksmiths, average	3.19 "
2 Blacksmiths helpers, average	2.50 "
4 Laborers	1.94 "

805 Total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park, and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter, and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle and Ferdinand streets, Columbus avenue, and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte, and Way streets, and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by the old boundary line between Roxbury and West Roxbury, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, Olney, and Columbia streets, and on the west by Blue Hill avenue, Seaver and Washington streets.

District 10.

That part of Dorchester bounded on the north by Columbia, Olney, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Back street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton, and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by the old boundary line between Roxbury and West Roxbury and Seaver street, on the east by Blue Hill avenue and Back street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief in Command.	COMPANIES IN DISTRICTS.				
		Engines.	Chemical Engines.	Hook and Ladders.	Hose.	Combination Wagons. Water Towers.
1.....	Peter F. McDonough...	5, 9, 11, 40	7	*2		
2.....	C. H. W. Pope.....	27, 32, 36	9	*9	3	
3.....	John F. Egan.....	8, 25, 44	....	*8, 14		
4	Wm. T. Cheswell.....	*4, 6, 10	1, 11	1	..	1
5.....	John F. Ryan.....	7, *26, 35	2	17		
6.....	John A. Mullen.....	*1, 2, 15, 38, 39, 43	8	5	..	2
7....	Patrick E. Keyes.....	*3, 22, 33	4	3, 13, 15	..	2
8	John Grady.....	13, 14, 37	3, 12	*12		
9.....	Edward H. Sawyer.....	12, 21, 23, 24	10	*4		
10.....	Williston A. Gaylord...	16, 17, *18, 19, 20	....	6, 7	..	1
11.....	Nathan L. Hussey.....	29, 34, *41	6	11		
12.....	Lewis P. Abbott.....	*28, 30, 42, 45	5	10, 16		

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner :

ENGINE-HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1.....	Dorchester street.....	5,698	
2. . . .	Cor. of O and Fourth streets.	4,000	
3.....	Bristol st. and Harrison ave.	4,000.	Ladder No. 3 in the building.
4.....	Bulfinch street.....	6,098	Chemical Engine No. 1, Lan- cers' Armory, and water- tower in this building.
5.....	Marion street, E.B.....	1,647	
6.....	Leverett street.....	2,269	
7.....	East street.....	1,893	
8.....	Salem street.....	2,568	
9	Paris street, E.B.	4,000	Ladder No. 2 in this building.
10.....	River street.....	1,886	
11.....	Saratoga and Byron streets .	10,000	
12.....	Dudley street.....	7,320	
13.....	Cabot street.....	4,832	
14.....	Centre street.....	5,713	
15.....	Dorchester avenue.....	2,843	
16.....	River st., Dorchester Dist..	12,736	Ladder No. 6 in this building.
17.. . .	Meeting-house Hill, Dorches- ter Dist.....	9,450	Ladder-house No. 7 on this lot.
18.....	Harvard street, Dor. Dist....	10,225	
19.....	Norfolk street, " 	7,683	
20.....	Walnut street, " 	9,000	
21.....	Boston street, " 	9,355	
22.....	Dartmouth street.....	4,463	
23.....	Northampton street.....	3,445	
24.....	Cor. Warren and Quincy sts.	4,186	
25.....	Fort Hill square.....	4,175	Ladder No. 8 and Ladder No. 14 in this building.
26.....	Mason street.....	5,623	Engine No. 35 in this building.
27.....	Elm st., Charlestown Dist. .	2,600	
28.....	Centre street, W. Roxbury District.....	10,377	Ladder No. 10 in this building.
29.....	Chestnut Hill ave., Brighton District.....	14,358	Ladder No. 11 in this building.
30.....	Mt. Vernon street, W. Rox- bury District.....	16,275	
31.....	Bunker Hill street.....	8,188	
32.....	Cor. Boylston and Hereford streets.....	5,646	Ladder No. 15 in this building.

ENGINE-HOUSES. — *Concluded.*

	Location.	No. of feet in lot.	Remarks.
No. 33.....	Western ave., Brighton.....	4,637	
34.....	Monument street	5,668	
35.....	Cor. Longwood and Brook- line avenues.....	5,400	Chem. Eng. 3 in this building.
36-37...	Congress street.....	4,000	
38.....	Sumner st., East Boston.....	4,010	
39.....	Harvard ave., near Cam- bridge st., Brighton Dist...	6,112	Chem. Eng. 6 in this building.
40.....	Washington street, between Atherton and Beethoven...	3,848	Chem. Eng. 5 in this building.
41.....	Andrew square.....	5,133	
42.....	Poplar st., cor. Washington, W. Roxbury.....	14,729	Ladder No. 16 in this building.
CHEMICAL-ENGINE HOUSES.			
1.....	Bulfinch street		See Engine-house 4.
2.....	Church street	3,412	
3.....	Cor. Longwood and Brook- line avenues.....		See Engine-house 37.
4.....	Shawmut avenue.....	889	
5.....	Washington street, between Atherton and Beethoven...		See Engine No. 42.
6.....	Harvard ave., near Cam- bridge st., Brighton Dist...		See Engine No. 41.
7.....	Chelsea street, East Boston..	1,346	
8.....	B street.....	1,804	
9.....	Main street.....		See Ladder-house 9.
10. . .	Eustis street	1,754	
11.....	North Grove street.....	3,918	
12.....	Tremont street.....		See Ladder-house 14.

HOSE-HOUSE.

	Location.	No. of feet in lot.	Remarks.
No. 3.....	Winthrop street	3,000	

COMBINATION-WAGON HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1.....	Dorchester avenue, Ashmont.	4,875	
2.....	Fourth street	3,101	

HOOK-AND-LADDER HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1.....	Friend street.....	1,676	
2.....	Paris street, East Boston...		See Engine-house 9.
3.....	Harrison avenue.....		See Engine 3.
4.....	Dudley street.....	3,923	
5.....	Fourth street.....	2,469	
6.....	River street, Dorchester.....		See Engine-house 16.
7.....	Meeting-house Hill.....		See Engine 17.
8.....	Fort Hill square.....		See Engine Co. 25.
9.....	Main street, Charlestown...	4,290	Chemical 9 in this building.
10.....	Centre street, W.R.....		See Engine-house 28.
11.....	Chestnut Hill avenue, Brighton District.....		See Engine-house 29.
12.....	Tremont street.....	4,350	Chemical 12 in this building.
13.....	Washington, near Dover st..	1,007	
14.....	Fort Hill square		See Engine-house 25.
15.....	Boylston, cor. Hereford st...		Engine 33 in this building.
16.....	Roslindale		See Engine 45.
17.....	Harrison avenue	2,134	

Fuel-house, Salem street, 417 feet of land.

Fuel-house, Main street, Charlestown, 2,430 feet of land.

Headquarters Building and Repair-shop, corner of Albany and Bristol streets, 23,663 feet.

Water Tower No. 2 and Wrecking Wagon are in Headquarters Building.

5,624 feet of land on Washington street, Dorchester, purchased as a site for a ladder-house.

STEAM FIRE-ENGINE COMPANIES.

No.	Location.	Built by.	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
1	Dorchester, near Fourth, S.B.	Amoskeag Mfg. Co.	Sept. 17, 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
2	Fourth, cor. O, S.B.	Manchester Loco. Works.	Nov., 1890	6 $\frac{1}{2}$	4	8	Third
3	Harrison ave., cor. Bristol.	Clapp & Jones Mfg. Co.	Aug. 22, 1890	9	5 $\frac{1}{2}$	8	"
4	Bulfinch st.	American Fire Eng. Co.	Feb. 22, 1893	9	5 $\frac{1}{2}$	8	"
5	Marion st., E.B.	Amoskeag Mfg. Co.	Nov., 1869	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	Second
6	Leverett st.	Silsby Mfg. Co.	April, 1890	.....	.....	Rot ary.	"
7	East st.	American Fire Eng. Co.	June, 1895	9	5 $\frac{1}{2}$	8	First
8	Salem st.	Manchester Loco. Works.	March 20, 1896	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
9	Paris st., E.B.	Hummenan & Co.	Oct. 14, 1872	7 $\frac{1}{4}$	4 $\frac{1}{2}$	8	"
10	Mount Vernon, cor. River st.	Manchester Loco. Works.	March 1, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
11	Saratoga, cor. Byron st., E.B.	Amoskeag Mfg. Co.	April 9, 1873	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
12	Dudley st.	Manchester Loco. Works.	March 27, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
13	Cabot st.	Clapp & Jones Mfg. Co.	April 1, 1890	8 $\frac{1}{2}$	5	7	"
14	Centre st.	Amoskeag Mfg. Co.	Sept. 17, 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
15	Dorchester ave. and Broadway.	American Fire Eng. Co.	Feb., 1893	9	5 $\frac{1}{2}$	8	First
16	Temple st., Dorchester.	Silsby Mfg. Co.	April 8, 1890	.....	.....	Rot ary.	Second
17	Meeting-House Hill, Dorchester.	Amoskeag Mfg. Co.	Sept. 1, 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
18	Harvard st., Dorchester.	Manchester Loco. Works.	Nov., 1890	6 $\frac{1}{2}$	4	8	Third
19	Norfolk st., Dorchester.	Clapp & Jones Mfg. Co.	Dec. 5, 1891	7	4 $\frac{3}{8}$	7	"
20	Walnut st., Dorchester.	Manchester Loco. Works.	Nov., 1890	6 $\frac{1}{2}$	4	8	"
21	Boston st., Dorchester.	Clapp & Jones Mfg. Co.	Dec. 10, 1893	7	4 $\frac{3}{8}$	7	"
22	Dartmouth st.	Silsby Mfg. Co.	Aug. 7, 1882	.....	.....	Rot ary.	Second
23	Northampton st.	Silsby Mfg. Co.	Sept. 12, 1890	.....	.....	Rot ary.	"
24	Warren, cor. Quincy st.	Clapp & Jones Mfg. Co.	Feb. 24, 1888	7	4 $\frac{3}{8}$	7	Third
25	Fort Hill sq.	Manchester Loco. Works.	Nov., 1896	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	First
26	Mason st.	La France Fire Eng. Co.	June, 1895	8 $\frac{1}{2}$	5 $\frac{1}{2}$	9	Extra first size.

27	Elm st., Charlestown.....	Amoskeag Mfg. Co.....	July 1, 1872	7½	4½	8	Second size.
28	Centre st., W. Roxbury.....	Silsby Mfg. Co.....	April 29, 1886	.....	Rotary.	8	"
29	Chestnut Hill ave., Brighton..	Hunneman & Co.....	Jan. 1, 1874	7½	4½	8	"
30	Mount Vernon st., W. Roxbury,	Clapp & Jones Mfg. Co...	Oct. 9, 1891	7	4½	7	"
31	(Out of service) Fire-boat.....	Clapp & Jones Mfg. Co...	July 3, 1889	16	9	10	Third
32	Bunker Hill st., Charlestown...	Manchester Loco. Works,	March 28, 1884	6½	4½	8	2 sets of pumps 4,790 gallons.*
33	Boylston st., Charlestown.....	Silsby Mfg. Co.....	Feb. 20, 1888	.....	Rotary.	8	Second size.
34	Western ave., Brighton.....	Amoskeag Mfg. Co.....	Dec., 1869	7½	4½	8	"
35	Mason st.,.....	Clapp & Jones Mfg. Co...	Aug. 9, 1890	9	5½	8	"
36	Monument st., Charlestown...	Manchester Loco. Works,	Dec., 1890	6½	4	8	First
37	Longwood ave.,.....	Amoskeag Mfg. Co.....	July 1, 1867	7½	4½	8	Second
38	Congress st., S. B.	Clapp & Jones Mfg. Co...	Nov., 1890	9	5½	8	First
39	Congress st., S. B.	Clapp & Jones Mfg. Co...	April 1, 1890	8½	5	7	Second
40	Summer st., E. B.	Silsby Mfg. Co.....	Aug., 1890	.....	Rotary.	7	"
41	Harvard ave., Brighton	Clapp & Jones Mfg. Co...	Feb., 1893	7	4½	7	Third
42	Egleston sq., W. Roxbury.....	Silsby Mfg. Co.....	Feb., 1893	.....	Rotary.	7	"
43	Andrew sq., S. B.	Clapp & Jones Mfg. Co...	March 3, 1893	7	4½	7	"
44	India wharf (Fire-boat).....	American Fire Eng. Co...	Aug., 1895	12½ H. 18 L.	P. 10	10	2 sets of pumps 6,520 gallons.*
45	Poplar st., W. Roxbury.....	American Fire Eng. Co...	Jan., 1895	7	4½	7	Third size.

* At 225 revolutions per minute.

In Reserve.

A	Old 8.....	Freeman & Jucket.....	April 26, 1869	7½	4½	8	Second size.
B	Old 10.....	Amoskeag Mfg. Co.....	Feb., 1870	7½	4½	8	"
C	Old 39.....	Manchester Loco. Works.	Dec., 1879	6½	4½	8	"
D	Old 4 (Crane neck).....	Manchester Loco. Works.	May, 1886	7½	4½	8	"
E	Old 4 (Straight frame)	Amoskeag Mfg. Co.....	Nov., 1867	7½	4½	8	"
F	Old 25.....	Silsby Mfg. Co.....	July, 1884	.....	Rotary.	8	"
G	Old 25.....	Clapp & Jones Mfg. Co...	Nov., 1890	9	5½	8	First
H	New Engine.....	Manchester Loco. Works.	Nov., 1896	7½	4½	8	Second

Engine 31, "Old Fire-boat," is now out of service at Brook's wharf, East Boston, awaiting new equipment with shallow hull.

HOOK-AND-LADDER COMPANIES.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.	Number of Ladders.
1.....	Warren square.....	Abbott-Downing Co.	December 20, 1890.	<i>Lbs.</i>	12
2.....	Paris st., E. B.	"	April 20, 1891.	8,800	12
3.....	Harrison ave., cor. Bristol st.	"	June 2, 1886.	9,805	22
4.....	Dudley street, Highland District	La France Fire-Engine Co., Elmira, N. Y.	April 25, 1884.	9,535	Hayes Extension.
5.....	Fourth street, near Dorchester ..	Hunneman & Co.	March 3, 1870.	8,365	17
6.....	Temple street, Dorchester	"	August 18, 1873.	6,050	19
7.....	Meeting-House Hill	Freeman and Jucket.....	January, 1869.	6,043	14
8.....	Fort Hill square	Abbott & Downing	January 30, 1890.	6,560	14
9.....	Main street, Charlestown.....	Leverich & Co., N. Y.	October 6, 1872.	9,535	19
10.....	Centre street, Jamaica Plain	Hunneman & Co.	December 21, 1870.	5,820	12
11.....	Chestnut Hill avenue, Brighton ..	"	April 13, 1872.	5,400	14
12.....	Tremont street, Highland District	Ryan Bros.	July 31, 1880.	8,065	15
13.....	Washington street, near Dover..	La France Fire-Engine Co., Elmira, N. Y.	March 12, 1890.	6,850	Hayes Extension.
14.....	Fort Hill square	Fire Extinguisher Manufacturing Co., Chicago	January 30, 1893.	6,800	Extension.
15.....	Boylston street.....	Fire Extinguisher Manufacturing Co., Chicago	April 28, 1888.	10,000	Extension.
16.....	Roslindale.....	Repair-shop	September, 1888.	10,600	15
-17.....	Harrison avenue	Preston Co., Chicago	April 29, 1891.	5,400	Extension. 87 feet.
				11,975	

HOOK-AND-LADDER TRUCKS. — In Reserve.

	Description.	Builders.	Weight as drawn to Fires.
	Relief C, formerly old No. 2.		
	Relief A, old 3	Hunneman & Co.	<i>Lbs.</i> 8,375
	“ B, old 8	Repair-shop	
	One new	Abbott-Downing Co.	9,535
	Old Ladder 11	Hunneman & Co.	8,065

WATER TOWERS.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.
1	Bulfinch street	Kansas City Fire Dept. Supply Co..	May 17, 1890.	<i>Lbs.</i> 10,000
2	Bristol street	Kansas City Fire Dept. Supply Co..	Dec. 18, 1893.	10,000

NEW APPARATUS PURCHASED DURING THE YEAR.

2 second size Manchester Locomotive Works engines.	
1 first " " " " engine.	
1 one-horse chemical engine.	
2 two-horse hose wagons.	
2 District Chiefs' "	

HOSE.

Amount of hose purchased and condemned during the year:

Purchased.		Condemned.
Leading cotton,	26,620 feet.	9,100 feet.
“ rubber,	.... “	700 “
Chemical,	1,000 “	300 “
Suction,	184 “	137 “
Totals,	27,804 “	10,237 “

Amount of hose in use and in storehouse February 1, 1897:

In Use.		In Storehouse.
Leading cotton,	81,000 feet.	10,500 feet.
“ rubber,	2,700 “	5,400 “
Chemical,	5,950 “	1,300 “
Suction,	996 “	233 “
Totals,	90,646 “	17,433 “

HORSES.

Purchased during the year	.	.	.	47
Sold or exchanged	.	.	.	23
Died	.	.	.	4
Killed, for cause	.	.	.	4
Number in the department	.	.	.	287

FIRE-ALARM BRANCH.

Work of new construction, renewal and extension for the maintenance of the efficiency of the overhead wires of the Fire-Alarm service has been carried on as usual during the year.

The new construction has been confined chiefly to Roxbury and West Roxbury, the other work being done in such portions of the city as conditions required.

About forty-five miles of new wire have been used and 514,639 feet of old wire taken down.

The underground district for 1896, as prescribed by the Commissioner of Wires, lies within the lines of the following streets :

Beginning at the water, along Broad street to Franklin, Washington, Bromfield, Tremont, Court, Hanover, Washington to Charlestown street, to the water.

All work in this district was completed within the time required by law, with the exception of a small number of abandoned poles and roof fixtures that are to be removed in a short time.

Some underground work has also been done outside the district.

Cables with capacities varying from 10 to 61 conductors were used and laid in subways belonging to the New England Telephone Company, with the exception of 2,467 feet, which were constructed by this department. Five man-holes have been built and 55 service connections made therewith.

Total length of cables laid in district	20,143 feet.
Laid outside district	5,190 "
Total length conductors in district	509,671 "
Conductors outside district	91,976 "
Total length cables now underground	81,233 "
Total length conductors	2,915,631 "

The underground service has been extended to 31 boxes and 3 department houses and 20 new boxes have been established during the year.

There are 583 fire-alarm boxes now in service.

The following boxes are private property : 38 duplicate, 115, 119, 149, 152, 161, 227, 228, 244, 271, 279, 281, 283, 299, 358, 422, 442, 443, 445, 446, 447, 448, 449, 511, 533, 617, 619, 623, 624, 626, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 726, 727, 728, 729, 731, 733, 735, 737, 738, 739, 741, 742, 744, 745, 746, 766, 769, 778, 779, 789, 791, 792, 793, 794, 795, 796, 797, 799, 816, 838, 842, 919, 927, 967, 971, 974.

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells :

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.

Bunker Hill School-house, Charlestown, 2009 lbs., owned by city.

Chapman School-house, Eutaw street, East Boston, steel, 3,109½ lbs., owned by city.

City Hall, Charlestown, composition, 3,600 lbs., owned by city.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.

Engine-house No. 17, Meeting-House Hill, Dorchester, composition, 4,000 lbs., owned by city.

Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs., owned by city.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.

Engine-house No. 21, Boston street, Dorchester, composition, 3,026 lbs., owned by city.

Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by city.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house No. 30, West Roxbury, 300 lbs., owned by city.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.

Engine-house No. 40, Orleans street, East Boston, composition, 817 lbs., owned by city.

Engine-house No. 41, Allston, composition, 900 lbs., owned by city.

Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.

Faneuil Hall, steel, 5,816 lbs., owned by city.

Lewis School-house, Dale street, Boston Highlands, composition, 3,104 lbs., owned by city.

Maverick-street Church, East Boston, composition, 2,000 lbs.

Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.

Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.

Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.

Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

Fire-alarm repair shop, bell formerly used on house of Chemical Engine 5 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 4 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 6 ; and two small bells from other locations.

Engine-house No. 1, Dorchester street, South Boston, composition, 800 lbs.

Engine-house No. 2, composition, 800 lbs.

George-street School-house, Boston Highlands, composition, 4,160 lbs.

Hook-and-Ladder House, No. 4, Dudley street, Boston Highlands, composition, 3,509 lbs.

Lawrence School-house, B street, South Boston, steel 3,400 lbs.

Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.

Quincy School-house, Tyler street, composition, 2,941 lbs.

Smith-street School-house, Highlands, composition, 4,083 lbs.

Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.

Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.

Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.

Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, forty in number, are taken care of by the Fire Department :

City Proper.

Arlington-street Church.
Charles-street Church.
Christ Church, Salem street, owned by city.
Commercial Wharf.
Odd Fellows Hall, Tremont street, owned by city.
Old South Church, owned by city.
Old State-House, owned by city.
Park-street Church.
Suffolk County Jail, owned by city.
St. Stephen's Church, Clark street, owned by city.
Shawmut-avenue Church.
Tremont M. E. Church, owned by city.
Young Men's Christian Union, owned by city.

South Boston.

Bigelow School-house, owned by city.
Gaston School-house, owned by city.
Lincoln School-house, owned by city.
Phillips Church, owned by city.
St. Augustine Church, Dorchester street, owned by city.
Ticknor School-house, Washington Village, owned by city.

East Boston.

Central Square Church.
London-street Church, owned by city.
Lyceum Hall, owned by city.
Trinity Church, owned by city.
Orient Heights Church, owned by city.

Boston Highlands.

Winthrop-street Church, owned by city.
West End stables, Tremont street, owned by city.
Roxbury High School, owned by city.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.
Neponset Church.

Tileston School (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by city.
Harvard Hill Church.
High School-house, owned by city.
Unitarian Church.

West Roxbury.

Dr. Strong's Church.
Unitarian Church.
Congregational Church (Roslindale), owned by city.

Brighton.

Bennett School-house, owned by city.

To the officers and men of the department I can heartily express my entire satisfaction with the spirit and manner of their work, and thank them for their successful efforts to sustain our good name and reputation; and I cannot too strongly express to yourself my gratitude for the uniformly generous support and confidence with which you have favored me.

Your very obedient servant,

HENRY S. RUSSELL,
Commissioner.

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ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

6357.8

YEAR 1897-98.



BOSTON:
MUNICIPAL PRINTING OFFICE.
1898:

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ANNUAL REPORT
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FOR THE
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BOSTON:
MUNICIPAL PRINTING OFFICE.
1898:

OFFICE OF THE FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 17, 1898.

HIS HONOR JOSIAH QUINCY, *Mayor* :

SIR: Good fortune during the past year has enabled this department to again present a satisfactory showing; and for how many years such fortune should have all credit for small fire losses I do not pretend to judge; but there must be a point at which eternal vigilance and activity, good generalship, zealous leaders and anxious followers and an excellent and entirely successful system for receiving and transmitting alarms, together with thorough equipment and appliance for fire duty may claim at least a small share of credit for favorable results. But with all the vigilance, discipline and equipment possible, we cannot hope to long retain our present record when citizens keep hot ashes in wooden barrels, or delay in giving us alarms until after they have let a small blaze grow to an incipient conflagration through their vain efforts to perform their own fire fighting; or while real estate owners can legally build tinder boxes in the shape of tenement houses, or leave old wooden fire-traps standing in the midst of large and valuable buildings; for some day, with bad luck and weather, we are sure to find ourselves burdened with heavy fire loss, unless our law-makers eradicate the existing evils, which may, at any time, postpone to the far future that millennium for underwriters which every fire department should strive to establish. The wooden camps pitched in some of our outskirts, as well as much of South Boston, offer a tempting harvest for fire, and cannot fail to be gathered as soon as the conditions of wind and weather are favorable, in spite of all possible firemen and fire apparatus.

The so-called fire-limit should, I think, be speedily drawn far beyond its present line in order to bring within the restriction of the building law that territory which at present

is treated as a country district, and in reality is fast becoming a terror to all firemen.

Nothing has knowingly been left undone which could increase the efficiency of this department or make the houses more healthy, serviceable and comfortable for the men; and now a veterinary hospital is our only crying want, the old barn at present used for that purpose being the one spot in our whole outfit not suitable for the important work required of it; and I strongly recommend an additional ladder-truck for that part of our territory now covered by Engines 38, 39, on Congress street, for the reason that many large buildings have been erected in that vicinity, which, in case of need, would require nearer ladder service than at present afforded.

The fire-boat (Engine 31) has not yet been accepted, because she requires, in my opinion, some change in her engines to enable her to successfully cope with that class of fires which requires speed and quick handling; and, therefore, the time for her completion has been extended to May.

The underground 12-inch pipe for the salt water system has been laid for 3,800 feet through Congress street, Post Office square and Central street, still requiring some 300 feet at a cost of about \$7,500 to connect it at each end with the water where the fire-boats are expected to provide the power necessary to force water through the various hydrants to a height equal to or beyond that attained by a street engine.

Our two (2) horseless propellers have given very satisfactory proof of their ability to move speedily and handily through all conditions of streets, as well as of their power to throw extraordinary streams of water after reaching the scene of action.

No fire-alarm box has failed to properly send in the alarm to these headquarters; and, while six million five hundred thousand (6,500,000) blows have been struck on the various bells and gongs in transmitting alarms from these headquarters to the different companies, the mechanical and electrical system has worked with such exact precision that no engine or ladder has been at any time seriously at fault in responding.

I know of no case where the officers and men have not done excellent work when called upon, and trust Your Honor shares my confidence that, barring accidents and making allowance for the fallibility of man, our department will continue to deserve the good-will of our fellow-citizens, which, during the past week, has been made so apparent through the sympathy and help extended by them to the families of our six men who lost their lives while on duty at the recent fire in Merrimac street.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL, appointed January 21, 1895; term expires May, 1898.

Secretary, BENJAMIN F. UNDERHILL, JR.

Chief of Department, LEWIS P. WEBBER, Headquarters, Bristol street.

Assistant Chief, WILLIAM T. CHESWELL, Headquarters, Engine-house 26, Mason street.

Second Assistant Chief and Chief of District No. 6, JOHN A. MULLEN, Headquarters, Engine-house 1, Dorchester street.

Superintendent of Fire Alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire Alarms, CYRUS A. GEORGE

Consulting Electrician, HENRY F. COTTLE.

Superintendent of Repair Shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair Shop, EUGENE M. BYINGTON.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. KNIGHT.

CLERKS.

Wm. E. Delano, M. J. Lafferty, Geo. F. Murphy, James P. Maloney.

D. J. Quinn, *Messenger*.

District Chiefs.

John F. Ryan,	Headquarters,	Ladder-house 2.
C. H. W. Pope,	"	" 9.

Joseph M. Garrity, Headquarters,	Ladder-house	8.
Peter F. McDonough, “	Engine-house	4.
Nathan L. Hussey, “	“	26.
Patrick E. Keyes, “	“	3.
John Grady, “	Ladder-house	12.
Edward H. Sawyer, “	“	4.
Williston A. Gaylord, “	Engine-house	18.
George F. Griffin, “	“	41.
Lewis P. Abbott, “	“	28.

FORCE AND PAY-ROLL.

Commissioner	\$5,000	per annum.
Secretary	2,400	“
Chief of Department	3,500	“
First Assistant Chief	2,400	“
Second “ “	2,200	“
Superintendent of Fire Alarms	3,200	“
Assistant Supt. “ “ “	2,000	“
Consulting Electrician	800	“
Superintendent of Repair Shop	2,000	“
Assistant Supt. “ “ “	1,600	“
Veterinary Surgeon	1,800	“
Medical Examiner	600	“
Purchasing Officer	1,600	“
Storekeeper	1,400	“
2 Clerks	900	“
1 Clerk	1,000	“
1 Clerk	1,300	“
1 Messenger	1,000	“
11 District Chiefs	2,000	“
54 Captains	1,600	“
62 Lieutenants	1,400	“
43 Engineers	1,300	“
46 Assistant Engineers	1,200	“
454 Permanent men :		
297 at	1,200	“
39 “	1,100	“
52 “	1,000	“
37 “	900	“
29 “	720	“
92 Call men :		
1 at	325	“
26 “	250	“
65 “	200	“
1 Driver for Chief of Department .	1.95	per day.

2 Drivers for Assistant Chiefs	1.75 per day.
10 Drivers for District Chiefs	1.75 “
2 Watchmen	1,000 per annum.
2 Hostlers, average	2.10 per day.

FIRE ALARM FORCE.

6 Operators	\$1,600 per annum.
2 Assistant Operators	1,200 “
1 Foreman of Construction	1,800 “
1 Dynamo man	2.00 per day.
18 Repairers, average	2.83 “

REPAIR SHOP EMPLOYEES.

1 Engineer	\$3.00 per day.
1 Assistant Engineer	9.00 per annum.
1 Harness-maker	4.00 per day.
2 Painters, average	3.12 “
2 Wheelwrights, average	3.25 “
6 Machinists, average	3.17 “
4 Blacksmiths, average	3.19 “
2 Blacksmiths' helpers, average	2.50 “
4 Laborers	1.94 “

849 Total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte and Way streets, and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton, and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica-way to Castleton street, through Castleton, Catalpa and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief in Command.	COMPANIES IN DISTRICTS.					
		Engines.	Chemical Engines.	Hook and Ladders.	Hose.	Combination Companies.	Water Towers.
1.....	John F. Ryan.....	5, 9, 11, 40	7	*2	..	4	
2.....	C. H. W. Pope.....	27, 32, 36	9	*9	3	5	
3.....	Joseph M. Garrity....	8, 25, 44	....	*8, 14			
4.....	Peter F. McDonough .	*4, 6, 10	1, 11	1	..	..	1
5.....	Nathan L. Hussey....	7, *26, 35	2	17			
6.....	John A. Mullen.....	*1, 2, 15, 38, 39, 43	8	5	..	2, 3	
7.....	Patrick E. Keyes.....	*3, 22, 33	4	3, 13, 15	..	..	2
8.....	John Grady.....	13, 14, 37	3, 12	*12			
9.....	Edward H. Sawyer....	12, 21, 23, 24	10	*4			
10.....	Williston A. Gaylord..	16, 17, *18, 19, 20	....	6, 7	..	1	
11.....	George F. Griffin.....	29, 34, *41	6	11			
12	Lewis P. Abbott.....	*28, 30, 42, 45	5	10, 16			

* Headquarters of District Chief.

The following-named members have received medals from the Massachusetts Humane Society for saving life at fires during the year :

Captain John I. Quigley, Engine Company 4.

Hoseman John Hogan, Engine Company 4.

Ladderman James F. Bailey, Ladder Company 17.

The following property is in charge of the Fire Commissioner:

Houses.

Location.	No. of feet in lot.	Occupied by.
Dorchester street.....	5,698	Engine 1.
Corner of O and Fourth streets.....	4,000	Engine 2.
Bristol street and Harrison avenue..	4,000	Engine 3 and Ladder 3.
Bulfinch street.....	6,068	Engine 4, Chemical 1 and Tower 1.
Marion street, E.B.....	1,647	Engine 5.
Leverett street.....	2,269	Engine 6.
East street.....	1,893	Engine 7.
Salem street.....	2,568	Engine 8.
Paris street, E.B.....	4,720	Engine 9 and Ladder 2.
River street.....	1,886	Engine 10.
Saratoga and Byron streets.....	10,000	Engine 11 and Combination 4.
Dudley street.....	7,320	Engine 12.
Cabot street.....	4,832	Engine 13.
Centre street.....	5,713	Engine 14.
Dorchester avenue.....	2,843	Engine 15.
River street, Dorchester District..	12,736	Engine 16 and Ladder 6.
Meeting-house Hill, Dorchester Dist..	9,450	Engine 17 and Ladder-house 7 on this lot.
Harvard street, Dorchester District..	10,225	Engine 18.
Norfolk street, " ..	7,683	Engine 19.
Walnut street, " ..	9,000	Engine 20.
Boston street, " ..	9,355	Engine 21.
Dartmouth street.....	4,463	Engine 22.
Northampton street.....	3,445	Engine 23.
Corner Warren and Quincy streets..	4,186	Engine 24.
Fort Hill square.....	4,175	Engine 25, Ladder 8 and Ladder 14.
Mason street.....	5,623	Engine 26 and Engine 35.
Elm street, Charlestown District.....	2,600	Engine 27.
Centre street, West Roxbury District,	10,377	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	Engine 29 and Ladder 11.
Mt. Vernon st., W. Roxbury District,	16,275	Engine 30.
Bunker Hill street.....	8,188	Engine 32.
Corner Boylston and Hereford sts....	5,646	Engine 33 and Ladder 15.
Western avenue, Brighton.....	4,637	Engine 34.
Monument street.....	5,668	Engine 36 and Combination 5.

Houses. — *Concluded.*

Location.	No. of feet in lot.	Occupied by.
Cor. Longwood and Brookline aves..	5,400	Engine 37 and Chemical 3.
Congress street.....	4,000	Engine 38 and Engine 39.
Sumner street, East Boston.....	4,010	Engine 40.
Harvard avenue, near Cambridge st., Brighton District.....	6,112	Engine 41 and Chemical 6.
Washington street, between Atherton and Beethoven.....	3,848	Engine 42 and Chemical 5.
Andrew square.....	5,123	Engine 43 and Combination 3.
Poplar street, cor. Washington, West Roxbury	14,729	Engine 45 and Ladder 16.
Church street.....	3,412	Chemical Engine 2.
Shawmut avenue.....	889	Chemical Engine 4.
Chelsea street, East Boston.....	1,346	Chemical Engine 7.
B street.....	1,804	Chemical Engine 8.
Eustis street.....	1,754	Chemical Engine 10.
North Grove street.....	3,918	Chemical Engine 11.
Winthrop street.....	3,000	Hose 3.
Friend street.....	1,676	Ladder 1.
Dudley street.....	3,923	Ladder 4.
Fourth street.....	2,469	Ladder 5.
Main street, Charlestown.....	4,290	Ladder 9 and Chemical 9.
Tremont street.....	4,350	Ladder 12 and Chemical 12.
Washington, near Dover street.....	1,007	Ladder 13.
Harrison avenue.....	2,134	Ladder 17.
Dorchester avenue, Ashmont.....	4,875	Combination 1.
Fourth street.....	3,101	Combination 2.

Fuel-house, Dorchester street, 1,610 feet of land.

Fuel-house, Salem street, 417 feet of land.

Fuel-house, Main street, Charlestown, 2,430 feet of land.

Headquarters Building and Repair-shop, corner of Albany and Bristol streets, 23,663 feet.

Water Tower No. 2 and Wrecking Wagon are in Headquarters Building.

6,874 feet of land on Washington street, Dorchester, purchased as a site for a ladder-house, which is now in process of construction.

12,251 feet of land on Centre street, West Roxbury, purchased as a site for Engine-House 30, which is now in process of construction.

Engine Companies.

No.	Location.	Built by.	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
1	Dorchester, near Fourth, S. B.	Clapp & Jones Mfg. Co.	April 1, 1890	8 $\frac{1}{8}$	5	7	Third
2	Fourth, cor. O, S. B.	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	First
3	Harrison ave., cor. Bristol.	Clapp & Jones Mfg. Co.	Aug. 22, 1890	9	5 $\frac{1}{2}$	8	"
4	Bulfinch st.	American Fire Eng. Co.	Feb. 22, 1893	9	5 $\frac{1}{2}$	8	"
5	Marion st., E. B.	Amoskeag Mfg. Co.	Nov., 1893	7 $\frac{3}{4}$	4 $\frac{3}{8}$	8	Second
6	Leverett st.	Silsby Mfg. Co.	April, 1890	.....	Rot ary.	8	"
7	East st.	American Fire Eng. Co.	June, 1895	9	5 $\frac{1}{2}$	8	First
8	Salem st.	Manchester Loco. Works,	March 30, 1896	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
9	Paris st., E. B.	Hunnehan & Co.	Oct. 14, 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
10	Mount Vernon, cor. River st.	Manchester Loco. Works,	March 1, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
11	Saratoga, cor. Byron st., E. B.	Amoskeag Mfg. Co.	April 9, 1873	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
12	Dudley st.	Manchester Loco. Works,	March 27, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
13	Cabot st.	Clapp & Jones Mfg. Co.	April 1, 1890	8 $\frac{1}{2}$	5	7	"
14	Centre st.	Amoskeag Mfg. Co.	Sept. 17, 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
15	Dorchester ave. and Broadway.	American Fire Eng. Co.	Feb., 1893	9	5 $\frac{1}{2}$	8	First
16	Temple st., Dorchester.	Silsby Mfg. Co.	April 8, 1890	.....	Rot ary.	8	Second
17	Meeting-House Hill, Dor.	Amoskeag Mfg. Co.	July 1, 1886	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
18	Harvard st., Dorchester.	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	Third
19	Norfolk st., Dorchester.	Clapp & Jones Mfg. Co.	Dec. 5, 1891	7	4 $\frac{3}{8}$	7	"
20	Walnut st., Dorchester.	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	"
21	Boston st., Dorchester	Clapp & Jones Mfg. Co.	Dec. 10, 1893	7	4 $\frac{3}{8}$	7	"
22	Dartmouth st.	Silsby Mfg. Co.	Aug. 7, 1882	.....	Rot ary.	8	Second
23	Northampton st.	Silsby Mfg. Co.	Sept. 12, 1890	.....	Rot ary.	8	"
24	Warren, cor. Quincy st.	Clapp & Jones Mfg. Co.	Feb. 24, 1888	7	4 $\frac{3}{8}$	7	Third
25	Fort Hill sq.	Manchester Loco. Works,	Nov., 1896	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	First

FIRE DEPARTMENT.

11

26	Mason st.....	La France Fire Eng. Co..	June, 1895	8 $\frac{1}{2}$	5 $\frac{1}{2}$	9	Extra first size.
27	Elm st., Charlestown.....	Amoskeag Mfg. Co.....	July 1, 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second "
28	Centre st., W. Roxbury.....	Silsby Mfg. Co.....	April 29, 1886	.....	Rotary.	7	" "
29	Chestnut Hill ave., Brighton..	Hunneiman & Co.....	Jan. 1, 1874	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
30	Mount Vernon st., W. Roxbury.	Clapp & Jones Mfg. Co..	Oct. 1, 1891	7	4 $\frac{1}{2}$	7	Third "
31	(Out of Service) Fire-boat.....	Clapp & Jones Mfg. Co..	July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown..	Manchester Loco. Works.	March 25, 1884	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.
33	Boylston st.....	Silsby Mfg. Co.....	Feb. 20, 1888	.....	Rotary.	8	" "
34	Western ave., Brighton	Amoskeag Mfg. Co.....	Dec., 1869	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
35	Mason st.....	Manchester Loco. Works.	Jan., 1898	9 $\frac{1}{2}$	5 $\frac{1}{2}$	8	Double extra first size.
36	Monument st., Charlestown...	Self Propeller.....	Dec., 1890	6 $\frac{1}{2}$	4	8	Third size.
37	Longwood ave.	Manchester Loco. Works.	March, 1896	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second "
38	Congress st., S.B.	Manchester Loco. Works.	June, 1897	9 $\frac{1}{2}$	5 $\frac{1}{2}$	8	Double extra first size.
39	Congress st., S.B.....	Self Propeller.....	April 1, 1890	9	5 $\frac{1}{2}$	8	First size.
40	Sumner st., E.B.....	Clapp & Jones Mfg. Co..	Aug., 1890	.....	Rotary.	7	" "
41	Harvard ave., Brighton	Silsby Mfg. Co.....	Feb., 1893	7	4 $\frac{1}{2}$	7	Third "
42	Egleston sq., W. Roxbury	Clapp & Jones Mfg. Co..	Feb., 1893	.....	Rotary.	7	" "
43	Andrew sq., S.B.	Silsby Mfg. Co.....	March 3, 1893	7	4 $\frac{1}{2}$	7	" "
44	India Wharf (Fire-boat)	American Fire Eng. Co. .	Aug., 1895	12 $\frac{1}{2}$ H. P. 18 L.	P. 10	10	2 sets of pumps 6,520 gallons.*
45	Poplar st., W. Roxbury	American Fire Eng. Co. .	Jan., 1895	7	4 $\frac{1}{2}$	7	Third size.

*At 225 revolutions per minute.

In Reserve.

No.	Location.	Built by.	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
A	Old 8	Freeman & Jacket	April 26, 1869	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	"
B	Old 10	Amoskeag Mfg. Co.	Feb., 1870	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	"
C	.....	Manchester Loco. Works.	Dec., 1870	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
D	Old 17 (Crane neck)	Manchester Loco. Works.	May, 1886	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
E	Old 4 (Straight frame)	Amoskeag Mfg. Co.	Nov., 1867	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"
F	Old 25	Silsby Mfg. Co.	July, 1884	.....	.....	Rotary.	"
G	Old 25	Clapp & Jones Mfg. Co. . .	Nov., 1890	9	5 $\frac{1}{2}$	8	First
H	Old 37	Manchester Loco. Works.	July, 1867	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	Second
I	Old 35	Clapp & Jones Mfg. Co. . .	Aug., 1890	9	5 $\frac{1}{2}$	8	First

Engine 31, "Old Fire-boat" at Brook's Wharf, East Boston, to receive changes in engine and wheel.

Chemical Companies.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.	Capacity.
1	Bulfinch street	Charles T. Holloway	Nov. 9, 1895.	Lbs. 4,500	Gals. 100
2	Church street	"	Oct. 9, 1895.	4,500	100
3	Longwood avenue	Babcock Manufacturing Co. . .	July 27, 1874.	3,720	100
4	Shawmut avenue	Rebuilt by Hinman in 1886.. }	Used as a spare engine and put in service, Dec. 20, 95.	2,990	100

5	Egleston square	Altered by Hinman	Sept. 21, 1876.	5,130	170
6	Harvard av., n. Camb'ge st., Brighton	"	May 1, 1876.	5,030	160
7	Chelsea street, E. B.	"	Sept. 27, 1886.	3,000	100
8	B street, S. B.	"	Oct. 27, 1887.	5,130	160
9	Main street, Charlestown	"	July 17, 1889.	2,990	100
10	Eustis street.	"	Sept. 13, 1889.	2,990	100
11	North Grove street.	Babcock Manufacturing Co. ..	{ Aschemical 1 } Oct. 4, 1890.	5,080	100
12	Tremont street	Charles T. Holloway	Sept., 1893.	3,000	80

In Reserve — Old Chemical 2.	Builders, Babcock Manufacturing Co.	Weight as drawn to Fires,	5,500 lbs.	Capacity, 160 gals.
" "	" "	" "	"	"
New	"	"	5,080	100 "

Hose Company.

Number.	Location.	Built by.	Put in Service.	Weight as drawn to Fires.
3.....	Winthrop street, Charlestown.....	Amoskeag Manufacturing Co....	Sept. 13, 1888.	<i>Lbs.</i> 2,830

In Reserve—7 hose wagons; 4 old hose carriages.

Ladder Companies.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.	Number of Ladders.
1	Warren square	Abbott-Downing Co.....	December 20, 1890.	<i>Lbs.</i>	12
2	Paris street, E. B.	"	April 20, 1891.	8,800	12
3	Harrison ave., cor. Bristol st....	"	June 2, 1886.	9,805	22
4	Dudley street, Highland District,	La France Fire-Engine Co., Elmira, N. Y.,	April 25, 1884.	9,535	Haycs
5	Fourth street, near Dorchester ..	"		8,365	Extension.
6	Temple street, Dorchester	Hunnean & Co.	March 3, 1870.	6,050	17
7	Meeting-House Hill.....	"	August 18, 1873.	6,043	19
8	Fort Hill square	Freeman and Juckett.....	January, 1869	6,560	14
9	Main street, Charlestown	Abbott & Downing	January 30, 1890.	9,535	14
10	Centre street, Jamaica Plain.	Leverich & Co., N. Y.....	October 6, 1872.	5,820	19
11	Chestnut Hill avenue, Brighton...	Hunnean & Co.	December 21, 1870.	5,400	12
12	Tremont street, Highland District	"	April 13, 1872.	8,065	14
13	Washington street, near Dover ..	Ryan Bros.	July 31, 1880.	6,850	15
14	Fort Hill square	La France Fire-Engine Co., Elmira, N. Y.,	March 12, 1890.	6,800	Hayes
15	Boylston street	Fire Extinguisher Manufacturing Co., Chicago	January 30, 1893.	10,000	Extension.
16	Roslindale.....	Fire Extinguisher Manufacturing Co., Chicago	April 28, 1888.	10,600	Extension.
17	Harrison avenue.....	Repair-shop	September, 1888.	5,400	15
		Preston Co., Chicago.....	April 29, 1891.	11,975	Extension.
					87 feet.

Ladder Trucks.— In Reserve.

Description.	Builders.		Weight as drawn to Fires.
Relief C, formerly old No 2.			<i>Lbs.</i>
Relief A, old 3	Hunneman & Co.....		8,375
“ B, old 8	Repair-shop		
One new	Abbott-Downing Co...		9,535
Old Ladder 11.....	Hunneman & Co.....		8,065

Combination Companies.

Number.	Location.	Built by.		Put in Service.	Weight as drawn to Fires.	Capacity.
1.....	Dorchester avenue, Ashmont.	Charles T. Holloway.....	Chemical and Hose...	March, 1892.	<i>Lbs.</i> 5,200	<i>Gdls.</i> 70
2.....	Fourth street, S.B.....	" "	" " "	May, 1893.	5,250	70
3.....	Andrew square, S.B.....	Fire Extinguisher Manufacturing Co.....	" " Ladder.	January, 1898.	6,500	70
4.....	Saratoga, cor. Byron st., E.B..	Charles T. Holloway.....	" " "	January, 1898.	6,940	70
5.....	Monument st., Charlestown..	" " "	" " "	January, 1898.	6,940	70

Water Towers.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.
1.....	Bulfinch street.....	Kansas City Fire Dept. Supply Co..	May 17, 1890.	<i>Lbs.</i> 10,000
2.....	Bristol street.....	Kansas City Fire Dept. Supply Co..	Dec. 18, 1893.	10,000

NEW APPARATUS PURCHASED DURING THE YEAR.

- 2 double-extra first-size self-propelling steam fire-engines.
- 3 large sized hose-wagons.
- 2 traverse-runner pungs.
- 3 combination chemical and ladder trucks.
- 1 fire-alarm wagon.
- 1 platform gear-wagon.

HOSE.

Amount of hose purchased and condemned during the year :

Purchased.		Condemned.	
Leading cotton,	10,400 feet.	12,000 feet.	
“ rubber,	4,800 “	1,200 “	
Chemical,	— “	400 “	
Suction,	68 “	141 “	
Totals,		15,268 “	13,741 “

Amount of hose in use and in storehouse, February 1, 1898 :

In Use.		In Storehouse.	
Leading cotton,	77,400 feet.	12,250 feet.	
“ rubber,	6,450 “	5,200 “	
Chemical,	6,750 “	350 “	
Suction,	948 “	258 “	
Totals,		91,548 “	18,058 “

HORSES.

Purchased during the year	.	.	.	76
Sold or exchanged	.	.	.	33
Died	.	.	.	1
Killed, for cause	.	.	.	5
Number in the department	.	.	.	324

MONTHS.	ALARMS RECEIVED.						LOSS.		INSURANCE.		ALARMS.			Confined to buildings.	Extended to others.	Needless still alarms.	BUILDINGS.				Out of City.	Wharves, Vessels, Coal and Wood piles, Electric cars, Barns, Rubbish, etc.		
	From Whom.						Buildings.	Contents.	Buildings.	Contents.	ALARMS.						No damage.	Slight damage.	Considerable damage.	Totally destroyed.				
											Telegraph.													
											Fire patrol.	Members.	Police.										Citizens.	Automatic.	Unknown.	Total.	Buildings.	Contents.	Fire.	False.	Needless.	Still.
1	3	13	88	7	-	112	\$16,472	\$33,159	\$368,430	\$147,600				55	2	4	51	86	-	16	29	52											4	1	-	4
February.....	1	3	13	88	7	-	112	\$16,472	\$33,159	\$368,430	\$147,600	55	2	4	51	86	-	16	29	52	4	1	-	4
March.....	1	11	13	109	3	1	138	17,150	32,416	927,377	286,225	72	2	5	59	102	1	7	36	67	2	-	4	17
April.....	4	10	24	131	5	-	174	55,133	160,820	1,290,213	639,550	76	2	6	90	108	4	14	47	59	9	5	4	36
May.....	3	11	7	97	4	2	124	17,723	39,385	479,500	245,850	53	3	7	61	79	3	13	40	43	3	-	2	17
June.....	10	8	23	140	3	2	186	16,342	18,351	497,245	236,219	72	2	8	104	110	5	11	49	62	6	3	3	47
July.....	31	8	33	130	5	3	210	20,280	13,849	565,449	96,655	68	3	5	134	113	2	11	51	53	9	5	2	74
August.....	3	4	15	90	2	1	115	11,812	22,428	406,426	233,560	49	1	6	59	91	-	9	48	40	3	-	-	8
September.....	2	7	15	118	6	1	149	18,055	11,732	685,990	136,500	68	1	5	75	111	3	10	53	61	5	-	-	19
October.....	6	3	25	130	8	1	173	21,652	18,093	1,119,840	241,108	79	1	10	83	116	4	16	52	68	4	2	3	23
November.....	2	7	24	87	6	4	130	18,171	59,186	783,750	320,990	58	3	9	60	79	4	18	38	40	9	-	2	15
December.....	1	6	16	157	8	4	192	49,314	39,207	1,019,400	328,000	95	4	6	87	148	2	25	57	83	10	2	-	7
January.....	3	11	21	128	11	-	174	37,920	26,875	937,600	583,050	82	-	8	84	127	1	26	30	89	8	2	1	11
Totals.....	67	89	229	1,405	68	19	1,877	\$300,024	\$475,501	\$9,081,214	\$3,555,307	827	24	79	947	1,270	29	176	530	717	72	20	21	278

*Causes of Fires and Alarms, from February 1, 1897, to
February 1, 1898.*

Alarms, accidental, automatic	41
“ false	24
“ out-of-town	21
Ashes, hot, in wooden receptacle	26
Back draft	1
Boiling over of tar or fat	30
Bonfires, grass, rubbish, etc.	278
Careless use of lamps, candles, etc.	51
“ “ “ pipe and cigars	36
Chimneys, soot burning	70
“ defective	27
Clothes too near stove	16
Defective flue	8
“ stove-pipe	9
“ grate	3
“ furnace	2
“ sprinkler	1
Electric motor igniting car	25
“ wires	78
Explosion and ignition of chemicals	16
Fireworks	35
Friction	4
Fumigating	3
Gas, explosion of	5
“ ignition of leaky pipes	8
“ jet setting fire	44
“ stove, careless use of and explosion	14
Incendiary	38
“ supposed	18
Kerosene lamp, explosion or breaking	91
“ “ upsetting	37
“ stove, careless use of, and explosion	59
Light mistaken for fire	20
Lightning	1
Matches, and rats	26
“ careless use of	94
“ children playing with	51
Naphtha, careless use of and ignition	12
Overheated stove or furnace	64
“ steam-pipe or boiler	15
“ chimneys	6
Use of kerosene to light fire	5
Drying plastering	12

Rekindling of ruins of previous fire	4
Slacking of lime	7
Smoky chimney	49
“ furnace or stove	41
Sparks from another fire	2
“ “ furnace or stove	11
“ “ chimney	26
“ “ locomotive	33
“ “ forge	8
Spontaneous combustion	40
Steam escaping	8
Unknown	219
Water-pipes, thawing out	17
Plumbers' stove upsetting	7
Total	1,877

Total number of actual fires	1,577
Confined to one building	1,270
Extended to others	29
Wharves, vessels, grass, etc.	278
Out of the city	21

BUILDINGS.

Slightly damaged	717
Considerably damaged	72
Totally destroyed	20
Not damaged	530

EXTINGUISHED BY

Extinguishers	355
Buckets of water	260
Chemical engines	237
Hydrant stream	165
Steamers	278
Police	7
Citizens	275
Total	1,577

FIRE-ALARM BRANCH.

The efficiency of the overhead service has been improved during the past year by the construction of a new circuit in West Roxbury, with which a portion of the boxes in that district have been connected. There were used for this work, including some renewals and extensions in other parts of the city, 129,360 feet of wire. Old wire taken down in 1897, underground district, 67,380 feet; outside district, 93,050 feet.

The underground district for 1897, as prescribed by the Commissioner of Wires, lies within the lines of the following streets:

Beginning at Warren bridge, along Charlestown street to Washington, Hanover, Court, Tremont, Park, Beacon, Joy and Cambridge streets to Charles river.

All work within this district was practically completed in the time designated, and in addition to this nearly as much cable has been laid outside, chiefly on Tremont street, south of Dover street, and in some streets on the Back Bay.

The cables used have been from ten to thirty-seven conductors, and are laid in ducts belonging to the New England Telephone Company, with the exception of 4,911 feet, which are owned by this department.

Total length of cables laid in district	.	13,016.4 feet.
Length of conductors	. . . . .	365,621.5 "
Cables laid outside district	. . . . .	12,876.1 "
Length of conductors	. . . . .	246,736.4 "
Total length cables now underground	.	107,125.5 "
Total length conductors	. . . . .	3,527,988.9 "

The underground service has been extended to thirty-eight boxes, twenty of which are placed on lamp-posts, two department houses, two police stations, and an emergency station of the Boston Elevated Railway Company, on Portland street. Eight testing stations have been established, four manholes built and forty-one service connections made, twenty-two of the latter being done outside the district.

All the fire-alarm boxes north of Dover and Berkeley streets are now connected with the underground service, with the exception of boxes 95 and 766. There have been 966

bell alarms given during the year which required 6,506,684 blows to be struck by the various apparatus of the system. Nineteen new boxes have been established, making a total of 601 boxes now in service.

The following boxes are private property: 38 duplicate, 115, 119, 149, 152, 161, 165, 227, 228, 244, 271, 279, 281, 283, 299, 358, 422, 442, 443, 445, 446, 447, 448, 449, 511, 533, 617, 619, 623, 624, 626, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 726, 727, 728, 729, 733, 735, 737, 738, 739, 741, 742, 744, 745, 746, 766, 769, 778, 779, 789, 791, 792, 793, 794, 797, 799, 816, 836, 838, 842, 864, 865, 919, 927, 967, 971, 974.

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells:

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.

Bunker Hill School-house, Charlestown, 2,009 lbs., owned by city.

Chapman School-house, Eutaw street, East Boston, steel, 3,109½ lbs., owned by city.

City Hall, Charlestown, composition, 3,600 lbs., owned by city.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.

Engine-house No. 17, Meeting-House Hill, Dorchester, composition, 4,000 lbs., owned by city.

Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs., owned by city.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.

Engine-house No. 21, Boston street, Dorchester, composition, 3,026 lbs., owned by city.

Engine-house No. 28, West Roxbury, composition. 4,000 lbs., owned by city.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house No. 30, West Roxbury, 300 lbs., owned by city.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.

Engine-house No. 40, Orleans street, East Boston, composition, 817 lbs., owned by city.

Engine-house No. 41, Allston, composition, 900 lbs., owned by city.
Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.
Faneuil Hall, steel, 5,816 lbs., owned by city.
Lewis School-house, Dale street, Boston Highlands, composition, 3,104 lbs., owned by city.
Maverick-street Church, East Boston, composition, 2,000 lbs.
Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.
Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.
Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.
Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

Fire-alarm repair shop, bell formerly used on house of Chemical Engine 5 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 4 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 6 ; and two small bells from other locations.
Engine-house No. 1, Dorchester street, South Boston, composition, 800 lbs.
Engine-house No. 2, composition, 800 lbs.
George-street School-house, Boston Highlands, composition, 4,160 lbs.
Hook-and-Ladder-House, No. 4, Dudley street, Boston Highlands, composition, 3,509 lbs.
Lawrence School-house, B street, South Boston, steel, 3,400 lbs.
Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.
Quincy School-house, Tyler street, composition, 2,941 lbs.
Smith-street School-house, Highlands, composition, 4,083 lbs.
Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.
Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.
Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.
Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-nine in number, are taken care of by the Fire Department:

City Proper.

Arlington-street Church.

Charles-street Church.

Christ Church, Salem street, owned by city.

Commercial Wharf.

Odd Fellows Hall, Tremont street, owned by city.

Old South Church, owned by city.

Old State-House, owned by city.

Park-street Church.

Suffolk County Jail, owned by city.

St. Stephen's Church, corner Hanover and Clark streets,
owned by city.

Shawmut-avenue Church.

Tremont M. E. Church, owned by city.

Young Men's Christian Union, owned by city.

South Boston.

Bigelow School-house, owned by city.

Gaston School-house, owned by city.

Lincoln School-house, owned by city.

Phillips Church, owned by city.

St. Augustine Church, Dorchester street, owned by city.

Ticknor School-house, Washington Village, owned by city.

East Boston.

Central Square Church.

London-street Church, owned by city.

Lyceum Hall, owned by city.

Trinity Church, owned by city.

Orient Heights Church, owned by city.

Roxbury.

Winthrop-street Church, owned by city.

West End stables, Tremont street, owned by city.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.

Neponset Church.

Tileston School (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by city.
Harvard Hill Church.
High School-house, owned by city.
Unitarian Church.

West Roxbury.

Dr. Strong's Church.
Unitarian Church.
Congregational Church (Roslindale), owned by city.

Brighton.

Bennett School-house, owned by city.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.

26 ANNUAL REPORT
OF THE
FIRE DEPARTMENT
FOR THE
YEAR 1898-99



BOSTON
MUNICIPAL PRINTING OFFICE
1899

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ANNUAL REPORT

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B
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Boston - Fire Department.



Dec. 12, 1903.

1899.

HEADQUARTERS FIRE DEPARTMENT,
BRISTOL STREET, BOSTON, February 8, 1899.

HIS HONOR JOSIAH QUINCY, *Mayor* :

SIR,—While, by the good fortune which has favored this department during recent years, we are again able to show a fair result of last year's work, I regret to point to the dangers referred to in my last report as in no degree lessened, and can only hope that by continued vigilance and promptness, we may, at least, postpone that conflagration at all times threatening through the presence of fire-traps and tinder-boxes in many parts of the territory supposed to be protected by this department.

The salt-water service from Atlantic avenue through Congress street, Post Office square and Central street, to Central Wharf has been perfected, with hydrants, electrical connections, etc., complete, to be used by the two fire-boats when needed to prevent conflagrations, if possible, in the district covered, but not for ordinary fire duty, and if it is deemed advisable to extend such service which, on trial, has proved eminently successful in throwing some 3,000 gallons per minute to the height of a ten (10) story building, I would recommend that a 16-inch pipe be laid from Central Wharf through Atlantic avenue, India and Franklin to Congress street, from Congress street through Atlantic avenue, Summer, Bedford, Chauncy, Summer, Hawley and Milk streets to Congress street to cover a thickly-congested territory to which, at any time, we may be called to fight a conflagration.

The new house for Engine 30 on Centre street, West Roxbury, John A. Fox, architect, was occupied on June 1, to the satisfaction of all concerned, and on November 8, the company for Combination 6 was organized and established in new quarters at Grove Hall, Dorchester, Perkins & Betton, architects, much to the relief of a long-expectant neighborhood.

The second fire-boat, Engine 31, after many trials, is now in service, and owing to her small draft of some four feet is able to protect the shallow portions of our water front beyond the reach of the deeper boat.

I would strongly urge that our wires of the Fire-alarm branch be placed under ground from Dover street bridge to Tremont street, up Tremont to Roxbury, from Roxbury to Washington, down Washington to Eustis, from Eustis to Harrison avenue, down Harrison avenue to Northampton, through Northampton to Albany, down Albany to the point of starting. And also in Charlestown from Warren bridge through City square to Park street, through Park to Henley, through Henley to Chelsea, through Chelsea street to Chelsea bridge, inasmuch as the storms of the past year have clearly demonstrated the advantage of such action, both for economy and for the efficiency of this very important branch of the department.

But little new construction work has been done by this branch in the past year, owing to the fact that nearly the whole of the underground work called for in the district for 1898, as prescribed by the Commissioner of Wires, was completed during the season of 1897, bounded as follows: Beginning at Charles river, by Cambridge, Joy, Beacon and Charles streets, Park square, Columbus avenue, Ferdinand street, Castle square, Tremont and Berkeley streets back to the river.

This completes the underground district as originally prescribed by act of the Legislature, passed in 1894.

The electrical service established in connection with the salt-water pipe-line system consists of a circuit contained in a five conductor cable, drawn through ducts that were laid in the same trench as the water-pipes and at the same time; the circuit thus constructed is connected with a break key enclosed at each post hydrant, also with a device by which telegraphic instruments can be placed in circuit at any time; so, by making use of the first the prescribed signal code can be transmitted to the fire-boat station by any one, and, by the other, messages of any character may be sent by men trained for the purpose.

The circuit is also extended to the fire-alarm headquarters by which communication is established between headquarters, the boat-station and any hydrant that may be connected at the time.

Two thousand, five hundred and sixty feet of cable, containing 27,800 feet of conductors, were used in this construction.

Much extra work was caused by the two heavy storms of the year; that of January 31 was especially disastrous to the overhead service, as the wires, poles and fixtures erected for their support were broken, torn down, and otherwise demoralized to a greater extent than ever occurred on any previous occasion since the fire-alarm system was established.

The damage resulting from the November storm was much less in extent, but a great amount of emergency work was made necessary by it before the circuits were restored to their normal condition.

The whole fire-alarm system has continued to show its excellence through alarm-boxes and transmitters, the former never failing to properly send in the alarms, while the latter, in sending them out, has struck 7,300,000 blows without serious mistakes in directing the engines and other apparatus.

Referring to my report of last year, I would again recommend that an additional ladder company be placed in the territory adjacent to Engines 38-39, on Congress street, to provide necessary ladder service for the many large buildings in that neighborhood.

Several of the outlying districts have received increased protection through additional horses and chemicals in the companies at present protecting them, and I cannot see the necessity of providing new companies for such districts, although I well know that every new hamlet prefers to depend on the protection of the Fire Department, rather than on that of insurance companies, and after pitching their wooden camps expect the city to provide adjacent engines and other fire apparatus.

Of the officers and men throughout the department, I can speak only in terms of praise for the vigilance and zeal shown on all occasions, as well as for their interest in

maintaining a high standard of discipline and conduct as firemen and citizens.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL; term expires May, 1901.

Secretary, BENJAMIN F. UNDERHILL, JR.

Chief of Department, LEWIS P. WEBBER.

Assistant Chief, WILLIAM T. CHESWELL.

Second Assistant Chief and Chief of District No. 6, JOHN A. MULLEN.

Superintendent of Fire-alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire-alarms, CYRUS A. GEORGE.

Consulting Electrician, HENRY F. COTTLE.

Superintendent of Repair-shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair-shop, EUGENE M. BYINGTON.

Hydraulic Engineer, GREELY S. CURTIS.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. KNIGHT.

Foreman of Hose and Harness Shop, PATRICK B. HANNON.

CLERKS.

Wm. E. Delano, M. J. Lafferty, Geo. F. Murphy, James P. Maloney, D. J. Quinn.

District Chiefs.

John F. Ryan,	Headquarters,	Ladder-house	2.
C. H. W. Pope,	"	"	9.
Joseph M. Garrity,	"	"	8.
Peter F. McDonough,	"	Engine-house	4.
Nathan L. Hussey,	"	"	26.
Patrick E. Keyes,	"	"	3.
John Grady,	"	Ladder-house	12.
Edward H. Sawyer,	"	"	4.
Williston A. Gaylord,	"	Engine-house	18.
George F. Griffin,	"	"	41.
Lewis P. Abbott,	"	"	28.

FORCE AND PAY-ROLL.

Commissioner	.	.	.	.	\$5,000 per annum. (less 7½ per cent.)
Secretary	.	.	.	.	2,400 " "
Chief of Department	.	.	.	.	3,500 " "
First Assistant Chief	.	.	.	.	2,400 " "
Second " "	.	.	.	.	2,200 " "

FIRE DEPARTMENT.

5

Superintendent of Fire-alarms . . .	\$3,200 per annum.		
Assistant Superintendent of Fire-alarms . . .	2,000	"	
Consulting Electrician . . .	800	"	
Superintendent of Repair-shop . . .	2,000	"	(less 7½ per cent.)
Assistant Superintendent of Repair-shop . . .	1,600	"	" "
Hydraulic Engineer . . .	1,400	"	" "
Veterinary Surgeon . . .	2,000	"	
Medical Examiner . . .	600	"	
Purchasing Officer . . .	1,600	"	" "
Foreman of Hose and Harness-shop . . .	1,400	"	" "
Storekeeper . . .	1,400	"	" "
1 Clerk . . .	1,000	"	" "
2 Clerks . . .	1,100	"	" "
1 Clerk . . .	1,200	"	" "
1 " . . .	1,500	"	" "
11 District Chiefs . . .	2,000	"	
54 Captains . . .	1,600	"	
63 Lieutenants . . .	1,400	"	
43 Engineers . . .	1,300	"	
43 Assistant Engineers . . .	1,200	"	
2 " . . .	900	"	
441 Permanent men.			
308 at . . .	1,200	"	
51 at . . .	1,100	"	
42 at . . .	1,000	"	
40 at . . .	900	"	
88 Call men.			
1 at . . .	325	"	
20 at . . .	250	"	
67 at . . .	200	"	
1 Driver for Chief of Department . . .	1.95 per day.		
2 Drivers for Assistant Chiefs, . . .	1.75	"	
11 Drivers for District Chiefs . . .	1.75	"	
2 Watchmen . . .	1,000 per annum.		
2 Hostlers, average . . .	1.98 per day.		

FIRE-ALARM FORCE.

6 Operators . . .	\$1,600 per annum.	
2 Assistant Operators . . .	1,200	"
1 Foreman of Construction . . .	1,800	"
1 Dynamo man . . .	2.75 per day.	
17 Repairers, average . . .	2.93	"

REPAIR-SHOP EMPLOYEES.

1 Engineer . . .	\$3.00 per day.	(less 5 per cent.)
1 Assistant Engineer . . .	900 per annum.	(less 7½ per cent.)
1 Painter . . .	3.75 per day.	" "
1 Painter . . .	2.50	(less 5 per cent.)
2 Wheelwrights . . .	3.25	(less 7½ per cent.)
4 Machinists . . .	3.25	" "
2 " . . .	3.00	(less 5 per cent.)
2 Blacksmiths . . .	3.50	(less 7½ per cent.)
1 Blacksmith . . .	3.25	" "
1 " . . .	2.50	(less 5 per cent.)
2 Blacksmith's helpers . . .	2.50	" "
4 Laborers, average . . .	2.05	"

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by winter, Park and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte and Way streets and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton, and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica way to Castleton street, through Castleton, Catalpa and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief in Command.	COMPANIES IN DISTRICTS. .				
		Engines.	Chemical Engines.	Hook and Ladders.	Combination Companies.	Water Towers.
1.....	John F. Ryan.....	5, 9, 11, 40	7	* 2	4	
2.....	C. H. W. Pope	27, 32, 36	9	* 9	5, 7	
3.....	Joseph M. Garrity...	8, 25, 31, 44	.....	* 8, 14		
4.....	Peter F. McDonough,	* 4, 6, 10	1, 11	1	.....	1
5	Nathan L. Hussey ...	7, * 26, 35	2	17		
6.....	John A. Mullen.....	* 1, 2, 15, 38, 39, 43	8	5	2, 3	
7.....	Patrick E. Keyes	* 3, 22, 33	4	3, 13, 15	.....	2
8.....	John Grady.....	13, 14, 37	3, 12	* 12		
9.....	Edward H. Sawyer..	12, 21, 23, 24	10	* 4	6	
10.....	Williston A. Gaylord,	16, 17, * 18, 19, 20	.....	6, 7	1	
11... ..	George F. Griffin	29, 34, * 41	6	11		
12.....	Lewis P. Abbott.....	* 28, 30, 42, 45	5	10, 16		

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner :

Houses.

Location.	No. of feet in lot.	Occupied by.
Dorchester street.....	5,698	Engine 1.
Corner of O and Fourth streets.....	4,000	Engine 2.
Bristol street and Harrison avenue...	4,000	Engine 3 and Ladder 3.
Bulfinch street.....	6,098	Engine 4, Chemical 1 and Tower 1.
Marlon street, East Boston.	1,647	Engine 5.
Leverett street.....	2,269	Engine 6.
East street.....	1,893	Engine 7.
Salem street.....	2,568	Engine 8.
Paris street, East Boston.	4,720	Engine 9 and Ladder 2.

Houses. — *Continued.*

Location.	No. of feet in lot.	Occupied by.
River street.....	1,886	Engine 10.
Saratoga and Byron streets, East Boston	10,000	Engine 11 and Combination 4.
Dudley street.....	7,320	Engine 12.
Cabot street.....	4,832	Engine 13.
Centre street.....	5,713	Engine 14.
Dorchester avenue.....	2,843	Engine 15.
River street, Dorchester District.....	12,736	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester Dist.	9,450	Engine 17 and Ladder-house 7 on this lot.
Harvard street, Dorchester District..	10,225	Engine 18.
Norfolk street, “ ..	7,683	Engine 19.
Walnut street, “ ..	9,000	Engine 20.
Columbia road, “ ..	9,355	Engine 21.
Dartmouth street.....	4,463	Engine 22.
Northampton street.....	3,445	Engine 23.
Corner Warren and Quincy streets..	4,186	Engine 24.
Fort Hill square.....	4,175	Engine 25, Ladder 8 and Ladder 14.
Mason street.....	5,623	Engine 26 and Engine 35.
Elm street, Charlestown District..	2,600	Engine 27.
Centre street, West Roxbury District,	10,377	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	Engine 29 and Ladder 11.
Centre street, West Roxbury District,	12,251	Engine 30.
Bunker Hill st., Charlestown District,	8,188	Engine 32.
Corner Boylston and Hereford sts....	5,646	Engine 33 and Ladder 15.
Western avenue, Brighton.....	4,637	Engine 34.
Monument st., Charlestown District..	5,668	Engine 36 and Combination 5.
Cor. Longwood and Brookline aves..	5,400	Engine 37 and Chemical 3.
Congress street	4,000	Engine 38 and Engine 39.
Sumner street, East Boston.....	4,010	Engine 40.
Harvard avenue, near Cambridge st., Brighton District.....	6,112	Engine 41 and Chemical 6.
Washington street, between Atherton and Beethoven.....	3,848	Engine 42 and Chemical 5.
Andrew square.....	5,133	Engine 43 and Combination 3.
Poplar, cor. Washington street, West Roxbury	14,729	Engine 45 and Ladder 16.
Church street	3,412	Chemical Engine 2.
Shawmut avenue.....	889	Chemical Engine 4.

Houses. — *Concluded.*

Location.	No. of feet in lot.	Occupied by.
Chelsea street, East Boston.....	1,346	Chemical Engine 7.
B street.....	1,804	Chemical Engine 8.
Eustis street.....	1,754	Chemical Engine 10.
North Grove street.....	3,918	Chemical Engine 11.
Friend street.....	1,676	Ladder 1.
Dudley street.....	3,923	Ladder 4.
Fourth street.....	2,469	Ladder 5.
Main street, Charlestown.....	4,290	Ladder 9 and Chemical 9.
Tremont street.....	4,350	Ladder 12 and Chemical 12.
Washington, near Dover street.....	1,007	Ladder 13.
Harrison avenue.....	2,134	Ladder 17.
Dorchester avenue, Ashmont.....	4,875	Combination 1.
Fourth street.....	3,101	Combination 2.
Washington street, Dorchester.....	6,874	Combination 6.
Winthrop street.....	3,000	Combination 7.

Fuel-house, Dorchester street, 1,610 feet of land

Fuel-house, Salem street, 417 feet of land.

Fuel-house, Main street, Charlestown, 2,430 feet of land.

Headquarters building and repair-shop, corner of Albany and Bristol streets, 23,663 feet.

Water Tower No. 2 and Wrecking Wagon are in Headquarters building.

Old house of Engine 30, on Mt. Vernon street, West Roxbury, 16,275 feet of land.

Engine Companies.

No.	Location.	Built by.	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size. Third First " " Second " " First Second " " " " " " First Second " Third " " " " " Second " Third
1	Dorchester, near Fourth, S. E.,	Clapp & Jones Mfg. Co..	April 1, 1890	6 $\frac{1}{8}$	5	7	Third
2	Fourth, cor. O, South Boston,	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{4}$	4	8	"
3	Harrison ave., cor. Bristol	Clapp & Jones Mfg. Co.,	Aug., 22, 1890	9	5 $\frac{1}{2}$	8	First
4	Bulfinch st.,	American Fire Eng. Co.,	Feb., 22, 1893	9	5 $\frac{1}{2}$	8	"
5	Marion st., East Boston.....	Amoskeag Mfg. Co.	Nov., 1867	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	Second
6	Leverett st.,	Silsby Mfg. Co.,	April, 1890	.....	Rotary.	Rotary.	"
7	East st.,	American Fire Eng. Co.,	June, 1895	9	5 $\frac{1}{2}$	8	First
8	Salem st.,	Manchester Loco. Works,	March 30, 1896	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
9	Paris st., East Boston.....	Hunneman & Co.,	Oct., 14, 1872	6 $\frac{1}{4}$	4 $\frac{1}{2}$	8	"
10	Mount Vernon, cor. River st.,	Manchester Loco. Works,	March 1, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
11	Saratoga, cor. Byron st., E. B.,	Amoskeag Mfg. Co.,	April 9, 1873	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
12	Dudley st.,	Manchester Loco. Works,	March 27, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
13	Cabot st.,	Clapp & Jones Mfg. Co.,	April 1, 1890	8 $\frac{1}{2}$	5	7	"
14	Centre st.,	Amoskeag Mfg. Co.,	Sept. 17, 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
15	Dorchester ave. and Broadway,	American Fire Eng. Co.,	Feb., 1893	9	5 $\frac{1}{2}$	8	"
16	Temple st., Dorchester	Silsby Mfg. Co.,	April 8, 1890	.....	Rotary.	Rotary.	First
17	Meeting House Hill, Dor....	Amoskeag Mfg. Co.,	May, 1886	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
18	Harvard st., Dorchester	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	Third
19	Norfolk st., Dorchester	Clapp & Jones Mfg. Co.	Dec., 5, 1891	7	4 $\frac{3}{8}$	7	"
20	Walnut st., Dorchester.....	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	"
21	Columbia road, Dorchester....	Clapp & Jones Mfg. Co.,	Dec., 10, 1893	7	4 $\frac{3}{8}$	7	"
22	Dartmouth st.,	Silsby Mfg. Co.,	Ang. 7, 1882	.....	Rotary.	Rotary.	Second
23	Northampton st.,	Silsby Mfg. Co.,	Sept. 12, 1890	.....	Rotary.	Rotary.	"
24	Warren, cor. Quincy st.,	Clapp & Jones Mfg. Co..	Feb. 24, 1888	7	4 $\frac{3}{8}$	7	Third

Engine Companies. — *Concluded.*

No.	Location.	Built by.	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	
25	Fort Hill sq.	Manchester Loco. Works,	Nov., 1896	7 $\frac{1}{2}$	4 $\frac{5}{8}$	8	First size.
26	Mason st.	La France Fire Eng. Co.,	June, 1895	8 $\frac{3}{8}$	5 $\frac{1}{2}$	9	Extra first size.
27	Elm st., Charlestown.	Amoskeag Mfg. Co.	July, 1, 1872	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	Second "
28	Centre st., West Roxbury.	Silsby Mfg. Co.	April 29, 1886	.....	Rotary.		" "
29	Chestnut Hill ave., Brighton.	Hunneman & Co.	Jan. 1, 1874	7 $\frac{1}{4}$	4 $\frac{3}{8}$	8	" "
30	Centre st., West Roxbury.	Clapp & Jones Mfg. Co..	Oct. 1, 1891	7	4 $\frac{3}{8}$	7	Third "
31	India Wharf (Fire-boat).	Clapp & Jones Mfg. Co..	July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown..	Manchester Loco. Works,	March 28, 1884	6 $\frac{7}{8}$	4 $\frac{1}{2}$	8	Second size.
33	Boylston st.	Silsby Mfg. Co.	Feb. 20, 1888	.....	Rotary.		" "
34	Western ave., Brighton.	Amoskeag Mfg. Co.	Dec., 1869	7 $\frac{5}{8}$	4 $\frac{1}{2}$	8	" "
35	Mason st.	Manchester Loco. Works,					
		Self-propeller	Jan., 1898	9 $\frac{1}{2}$	5 $\frac{3}{8}$	8	Double extra first size.
36	Monument st., Charlestown.	Manchester Loco. Works,	Dec., 1890	6 $\frac{1}{2}$	4	8	Third size.
37	Longwood ave.	Manchester Loco. Works,	March, 1896	6 $\frac{7}{8}$	4 $\frac{1}{2}$	8	Second "
38	Congress st., South Boston ..	Manchester Loco. Works,					
		Self-propeller.	June, 1897	9 $\frac{1}{2}$	5 $\frac{3}{8}$	8	Double extra first size.
39	Congress st., South Boston.	Clapp & Jones Mfg. Co..	April 1, 1890	9	5 $\frac{1}{2}$	8	First size.
40	Summer st., East Boston	Silsby Mfg. Co.	Aug., 1890	.....	Rotary.		" "
41	Harvard ave., Brighton.	Clapp & Jones Mfg. Co.,	1893	7	4 $\frac{3}{8}$	7	Third "
42	Egleston sq., West Roxbury.	Silsby Mfg. Co.	Feb., 1893	.....	Rotary.		" "
43	Andrew sq., South Boston.	Clapp & Jones Mfg. Co.,	March 3, 1893	7	4 $\frac{3}{8}$	7	" "
44	(Out of service) for repairs (Fire-boat)						
		American Fire Eng. Co.,	Aug., 1895	12 $\frac{1}{2}$ H. P. 18 L.	P. 10	10	2 sets of pumps 6,520 gallons.*
45	Washington, cor. Poplar st., West Roxbury.	American Fire Eng. Co.,	Jan., 1895	7	4 $\frac{3}{8}$	7	Third size.

* At 225 revolutions per minute.

In Reserve.

A	Old 8.....	Freeman & Juckett.....	April 26, 1869	7½	4½	8	Second size.
B	Old 10.....	Amoskeag Mfg. Co.....	Feb., 1870	7½	4½	8	" "
C	.....	Manchester Loco. Works,	Dec., 1879	6½	4½	8	" "
D	Old 17 (Crane neck).....	Manchester Loco. Works,	May, 1886	7½	4½	8	" "
E	Old 4 (Straight frame).....	Amoskeag Mfg. Co.....	Nov., 1867	7½	4½	8	" "
F	Old 25.....	Silsky Mfg. Co.....	July, 1884	.....	Rot ary.	8	" "
G	Old 25.....	Clapp & Jones Mfg. Co.,	Nov., 1890	9	5½	8	First
H	Old 37.....	Manchester Loco. Works,	July, 1867	7½	4½	8	Second
I	Old 35.....	Clapp & Jones Mfg. Co.,	Aug., 1890	9	5½	8	First
J	Old 35.....	Amoskeag Mfg. Co.....	Sept., 1872	7½	4½	8	Second

Also five hose wagons.

Chemical Companies.

Number.	Location.	Builders.	Put in Service.	Capacity.
1.....	Bulfinch st.	Charles T. Holloway.	Nov. 9, 1895	<i>Gals.</i> 100
2.....	Church st.	Babcock Manufacturing Co.	April 25, 1874	160
3.....	Longwood ave.	"	July 27, 1874	100
4.....	Shawmut ave.....	Rebuilt by Hinman in 1886.....	{ Used as a spare engine and put in service vice Dec. 20, 1895 }	100
5.....	Egleston sq.....	Altered by Hinman.....		170
6.....	Harvard ave., near Cambridge st., Brighton,	"	Sept. 21, 1876	160
7.....	Chelsea st., East Boston	"	May 1, 1876	100
8.....	B st., South Boston.....	"	Sept. 27, 1886	160
9.....	Main st, Charlestown.....	"	Oct. 27, 1887	160
			July 17, 1889	100

Chemical Companies. — *Concluded.*

Number.	Location.	Builders.	Put in Service.	Capacity.
10.....	Eustis st.....	Altered by Hinman	Sept. 13, 1889	<i>Gals.</i> 100
11.....	North Grove st.....	Babcock Manufacturing Co.....	{ As Chemical 1, }	100
12.....	Tremont st.	Charles T. Holloway.....	{ Oct. 4, 1890 } Sept., 1896	80

In Reserve.

	Old Chemical 2.....	Charles T. Holloway.....	.....	100
	Spare	Babcock Manufacturing Co.....	.....	100

Ladder Companies.

Number.	Location.	Builders.	Put in Service.	Number of Ladders.
1.....	Warren sq.	Hunneman & Co.....	December 20, 1869	12
2.....	Paris st., East Boston.....	Abbott-Downing Co.....	April 20, 1891	12
3.....	Harrison ave., cor. Bristol st.....	"	June 2, 1886	14
4.....	Dudley st., Highland District.....	"	April 25, 1884	15
5.....	Fourth st., near Dorchester.....	Hunneman & Co.....	March 3, 1870	17
6.....	Temple st., Dorchester.....	"	August 18, 1873	17
7.....	Meeting House Hill.....	C. T. Holloway & Co.	July 28, 1898	10

8.....	Fort Hill sq.....	Fire Department Repair-shop.....	August	23, 1898	12
9.....	Main st., Charlestown.....	Leverich & Co., N. Y.....	October	6, 1872	15
10.....	Centre st., Jamaica Plain.....	Hunneman & Co.....	December	21, 1870	12
11.....	Chestnut Hill ave., Brighton.....	".....	April	13, 1872	14
12.....	Tremont st., Highland District.....	Ryan Bros.....	July	31, 1880	15
13.....	Washington st., near Dover.....	La France Fire-Engine Co., Elmira, N. Y.....	March	12, 1890	Hayes
14.....	Fort Hill sq.....	Fire Extinguisher Manufacturing Co., Chicago,	January	30, 1893	Extension
15.....	Boylston st.....	".....	April	28, 1888	Extension
16.....	Roslindale.....	Repair-shop.....	September,	1888	15
17.....	Harrison ave.....	Preston Co., Chicago.....	April	29, 1891	Extension 87 feet

Ladder Trucks.—In Reserve.

Description.	Builders.	
Relief C, formerly old No. 2.		
" B, old 8.....	Fire Department Repair-shop.	
Old Ladder 11.....	Hunneman & Co.	
" 4.....	La France Fire-engine Co., Elmira, N. Y.	Extension.
" 8.....	Abbott & Downing.	

Combination Companies.

Number.	Location.	Built by.		Put in Service.	Capacity.
					<i>Gals.</i>
1.....	Dorchester ave., Ashmont....	Charles T. Holloway.....	Chemical and Hose ..	March, 1892	70
2.....	Fourth st., South Boston.....	"	" " "	May, 1893	70
3.....	Andrew sq., South Boston....	Fire Extinguisher Mfg. Co.	" " Ladder.	January, 1898	70
4.....	Saratoga, cor. Byron st., E. B.,	Charles T. Holloway.....	" " "	January, 1898	70
5.....	Monument st., Charlestown..	" "	" " "	January, 1898	70
6.....	Washington st., Dorchester ..	Fire Extinguisher Mfg. Co.	" " "	Nov. 8, 1898	70
7.....	Winthrop st., Charlestown ...	" "	" " Hose..	April 29, 1898	70

Water Towers.

Number.	Location.	Builders.	Put in Service.
1.....	Bulfinch st.....	Kansas City Fire Department Supply Co....	May 17, 1890
2.....	Bristol st.....	" " "	Dec. 18, 1893

NEW APPARATUS PURCHASED DURING THE YEAR.

2 combination chemical and ladder trucks.
 4 pairs 35-gallon chemical tanks.
 1 combination steel Babcock chemical and hose-wagon.
 2 large sized hose-wagons.

HOSE.

Amount of hose purchased and condemned during the year :

	Purchased.	Condemned.
Leading cotton,	6,000 feet.	7,750 feet.
“ rubber,	2,000 “	1,050 “
Chemical,	2,000 “	400 “
Suction,	128 “	104 “
Totals,	10,128 “	9,304 “

Amount of hose in use and in storehouse, February 1, 1899 :

	In use.	In storehouse.
Leading cotton,	76,750 feet	11,600 feet.
“ rubber,	8,800 “	3,200 “
Chemical,	8,400 “	500 “
Suction,	936 “	244 “
Totals,	94,886 “	15,544 “

HORSES.

Purchased during the year	.	.	.	61
Sold or exchanged	.	.	.	31
Died	.	.	.	8
Killed for cause	.	.	.	11
Number in the department	.	.	.	335

MONTHS. 1898-99.	ALARMS RECEIVED.							LOSS.		INSURANCE.		ALARMS.			Confined to buildings.		Extended to others.		Needless still alarms.		BUILDINGS.				Out of city.		Wharves, Vessels, Coal and Wood piles, Electric cars, Boufns.
	From Whom.											Telegraph.	Fire.	False.							Needless.	Still.	Slight damage.	Considerable damage.				Totally destroyed.
	Fire patrol.	Members.	Police.	Citizens.	Automatic.	Unknown.	Accidental.	Total.																			
February ...	6	10	22	120	9	1	....	168	\$37,039	\$36,300	\$761,633	\$253,576	59	3	7	99	122	5	23	34	87	7	4	....	8
March	5	5	15	130	14	1	1	171	30,992	36,235	838,752	315,750	75	3	10	83	115	2	19	41	68	9	1	....	22	
April .....	....	9	31	111	6	2	....	159	156,308	233,185	1,156,000	759,588	70	2	7	80	107	4	24	49	57	10	1	1	14
May .....	....	8	17	108	8	....	....	141	17,279	62,770	1,049,928	665,975	67	1	9	64	98	2	15	48	34	9	1	2	14
June	9	7	23	163	1	....	....	203	16,287	10,329	843,980	185,025	98	2	1	102	138	4	7	66	71	8	2	2	49
July	17	12	30	178	6	2	....	245	55,613	258,475	470,515	441,450	98	3	10	134	144	7	11	53	98	6	5	....	70
August	1	8	14	87	15	1	....	126	20,792	47,926	498,085	182,550	67	3	5	51	90	5	10	39	57	5	2	....	7
September ..	1	6	13	96	4	....	....	120	30,191	136,211	392,720	440,050	65	....	4	51	89	2	11	43	42	8	1	1	13
October	2	5	12	98	2	2	....	121	11,709	13,215	477,335	101,800	59	4	9	49	85	1	7	29	49	7	2	....	15
November ..	5	3	11	112	9	....	2	142	19,555	22,426	556,036	139,050	70	2	6	64	112	4	9	56	53	9	2	1	8	
December ..	2	10	17	152	9	1	....	191	24,937	65,081	1,118,172	426,366	93	2	2	94	162	3	14	68	82	16	2	3	5	
January	3	5	16	160	8	1	....	193	19,402	79,064	2,517,050	647,625	91	1	10	91	147	....	19	38	99	9	1	....	16
Total	51	88	221	1,515	91	11	3	1,980	\$440,044	\$1,901,217	\$10,680,806	\$4,558,805	912	26	80	962	1,409	39	175	564	797	103	24	10	241		

*Causes of Fires and Alarms from February 1, 1898, to
February 1, 1899.*

Alarms, accidental, automatic	73
“ false	26
“ out-of-city	10
Ashes, hot, in wooden receptacle	27
Back draft	2
Boiling over of fat or tar	33
Bonfires, grass, rubbish, etc.	179
Careless use of lamps, candles, etc.	35
“ “ “ pipes and cigars in smoking	47
Chimneys, soot burning	95
“ defective	17
“ overheated	4
“ collapse of	1
Clothes too near stove	11
Collapse of buildings	1
Defective flue	11
“ stove-pipe	3
“ grate or fire-place	8
“ furnace	2
“ sprinkler	3
Electric motor igniting car	17
“ wires	65
Explosion and ignition of chemicals	9
Fireworks	37
Friction	1
Fumigating	4
Gas, explosion of	9
“ ignition of leaky pipes	9
“ jet setting fire	59
Ignition of dust in blower	4
Incendiary	26
“ supposed	18
Lamp, explosion	67
“ upsetting and breaking	104
Light mistaken for fire	15
Lightning	2
Matches and rats	30
“ “ children	78
“ careless use of	107
Monkey throwing sawdust in lamp	1
Naphtha, careless use of, and ignition	24
Oil stove “ “ “ “ explosion	72
Gas stove “ “ “ “ “	3
Plastering, drying	6
Overheated boiler or steam-pipe	16

Overheated oven	5
“ stove or furnace	55
Railroad whistle blowing for flag raising	1
Rekindling of ruins of previous fire	2
Plumber's stove upsetting	9
Slacking of lime	5
Smoky chimneys	34
“ stove or furnace	53
Sparks from another fire	1
“ “ furnace or stove	12
“ “ chimney	27
“ “ forge	10
“ “ a gun	1
“ “ engine or locomotive	25
Spontaneous combustion	39
Steam escaping	13
Street fight	2
Testing-box	1
Test-alarm	1
Team striking and breaking box	1
Unknown	274
Use of kerosene to light fire	4
Water-pipes, thawing out	33
“ “ busting of	1
Total	<u>1,980</u>
Total number of actual fires	<u>1,699</u>
Confined to one building	1,409
Extended to others	39
Wharves, vessels, grass, etc.	241
Out of the city	<u>10</u>

BUILDINGS.

Slightly damaged	797
Considerably damaged	103
Totally destroyed	24
Not damaged	<u>564</u>

EXTINGUISHED BY

Extinguishers	425
Buckets of water	253
Chemical engines	282
Hydrant stream	141
Steamers	294
Miscellaneous, brooms, stamping out and smothering	58
Citizens	236
Total	<u>1,689</u>

The following Fire-alarm boxes are private property: 115, 119, 149, 152, 161, 165, 212, 227, 228, 244, 271, 279, 281, 283, 299, 358, 422, 442, 443, 445, 446, 447, 448, 449, 511, 533, 617, 619, 623, 624, 626, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 726, 727, 728, 729, 731, 732, 733, 735, 737, 738, 739, 741, 742, 744, 745, 746, 766, 767, 769, 773, 778, 779, 789, 791, 792, 793, 794, 795, 797, 799, 816, 828, 838, 842, 864, 865, 919, 927, 967, 971, 974.

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells:

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.

Bunker Hill School-house, Charlestown, composition, 2,009 lbs., owned by city.

Chapman School-house, Eutaw street, East Boston, steel, 3,109½ lbs., owned by city.

City Hall, Charlestown, composition, 3,600 lbs., owned by city.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.

Engine-house No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs., owned by city.

Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs., owned by city.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.

Engine-house No. 21, Boston street, Dorchester, composition, 3,026 lbs., owned by city.

Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by city.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house, Mt. Vernon street, West Roxbury, steel, 1,000 lbs., owned by city.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.

Engine-house No. 40, Orleans street, East Boston, composition, 817 lbs., owned by city.

Engine-house No. 41, Allston, composition, 900 lbs., owned by city.

- Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.
- Lewis School-house, Dale street, Boston Highlands, composition, 3,104 lbs., owned by city.
- Maverick-street Church, East Boston, composition, 2,000 lbs.
- Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.
- Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.
- Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.
- Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

- Fire-alarm repair-shop, bell formerly used on house of Chemical Engine 5 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 4 ; one composition, 400 lbs., formerly used on house of Chemical Engine No. 6, and two small bells from other locations.
- Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.
- Engine-house No. 2, composition, 800 lbs.
- Faneuil Hall, steel, 5,816 lbs., owned by city, taken down and stored by Public Buildings Department.
- George-street School-house, Boston Highlands, composition, 4,160 lbs.
- Hook-and-Ladder House No. 4, Dudley street, Boston Highlands, composition, 3,509 lbs.
- Lawrence School-house, B street, South Boston, steel, 3,400 lbs.
- Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.
- Quincy School-house, Tyler street, composition, 2,941 lbs.
- Smith-street School-house, Highlands, composition, 4,083 lbs.
- Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.
- Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.
- Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.
- Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-nine in number, are taken care of by the Fire Department:

City Proper.

Arlington-street Church.
Charles-street Church.
Christ Church, Salem street, owned by city.
Commercial Wharf.
Odd Fellows Hall, Tremont street, owned by city.
Old South Church, owned by city.
Old State House, owned by city.
Park-street Church.
Suffolk County Jail, owned by city.
St. Stephen's Church, Clark street, owned by city.
Shawmut-Avenue Church.
Tremont M. E. Church, owned by city.
Young Men's Christian Union, owned by city.

South Boston.

Bigelow School-house, owned by city.
Gaston School-house, owned by city.
Lincoln School-house, owned by city.
Phillips Church, owned by city.
St. Augustine Church, Dorchester street, owned by city.
Ticknor School-house, Washington Village, owned by city.

East Boston.

Central-square Church.
London-street Church, owned by city.
Lyceum Hall, owned by city.
Trinity Church, owned by city.
Orient Heights Church, owned by city.

Boston Highlands.

Winthrop-street Church, owned by city.
West End stables, Tremont street, owned by city.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.
Neponset Church.

Tileston School (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by city.
Harvard Hill Church.
High School-house, owned by city.
Unitarian Church.

West Roxbury.

Dr. Strong's Church.
Unitarian Church.
Congregational Church (Roslindale), owned by city.

Brighton.

Bennett School-house, owned by city.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.

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ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

YEAR 1899-1900



BOSTON
MUNICIPAL PRINTING OFFICE
1900

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BOSTON

MUNICIPAL PRINTING OFFICE

1900

T. Boston - Fire Department

Dec. 12, 1903



1900

HEADQUARTERS FIRE DEPARTMENT,
BRISTOL STREET, BOSTON, February 14, 1900.

HIS HONOR THOMAS N. HART, *Mayor* :

SIR, — While the losses by fire for last year exceed those of several years passed, we can derive some satisfaction from the fact that there were 2,444 alarms, with an attendant loss of \$1,630,149, averaging \$677.27; while in 1898, 1,980 alarms with a loss of \$1,441,261 averaged \$727.90. In sending out these alarms from headquarters 9,792,000 electric blows have been necessary, while for the previous year 7,355,000 blows did the work; and it is unnecessary for me to say that the successful work done by the department in handling this number of fires, increased in magnitude as well as in number, has strengthened my confidence in the hope that the dreaded conflagration against which we are daily preparing may still be delayed through the activity and zeal of our officers and men and the increased strength of our apparatus.

The fire-alarm branch of the department deserves much praise for its successful work in receiving and transmitting this unusual number of alarms during the past year; there having been no important failure in any part of the intricate system established and maintained by it. There are 624 fire-alarm boxes in service from which all information of fires is received, and in which there has been only one failure during the year; the total length of wire conductors now underground is 761 miles with some 800 miles of wire stretched

on poles, and I hope that during all future years we may be able to place an additional amount below ground until the whole system is so covered.

I cannot too often or too strongly impress on our fellow-citizens the necessity of outside standpipes on high buildings, for adequate fire-escapes and for a change in the so-called fire limit for preventing the erection of wooden buildings, which now in our country districts offer tempting food for conflagration and disaster.

In my opinion the principle on which the department has been conducted during the last five years has, by its results, proved itself a good one, our efforts having been devoted to strengthening the force within its present limits, rather than enlarging it by additional houses and companies at necessarily a great expenditure of money; and to-day I cannot recommend any additional houses, other than one for a ladder truck to be located near the present engine-house of companies 38-39 on Congress street, South Boston, for the protection of the many large buildings lately placed in that vicinity.

While I appreciate the possible advantage of the salt-water system already extending from Central Wharf up Central street through Post Office Square and Congress street to Atlantic avenue, I feel that property-owners should equip their buildings with outside standpipes, made available to the apparatus of this department, before the city should be called on to lay out much money on the further adoption of that system.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL; term expires May, 1901.

Secretary, BENJAMIN F. UNDERHILL.

Chief of Department, LEWIS P. WEBBER.

Assistant Chief, WILLIAM T. CHESWELL.

Second Assistant Chief and Chief of District No. 6, JOHN A. MULLEN.

Superintendent of Fire-alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire-alarms, CYRUS A. GEORGE.

Consulting Electrician, HENRY F. COTTLE.

Superintendent of Repair-shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair-shop, EUGENE M. BYINGTON.

Hydraulic Engineer, GREELEY S. CURTIS.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. KNIGHT.

Foreman of Hose and Harness-shop, PATRICK B. HANNON.

CLERKS.

William E. Delano, M. J. Lafferty, George F. Murphy,
James P. Maloney, D. J. Quinn.

District Chiefs.

John F. Ryan,	Headquarters,	Ladder-house	2
C. H. W. Pope,	"	"	9
Joseph M. Garrity,	"	"	8
Peter F. McDonough,	"	Engine-house	4
Nathan L. Hussey,	"	"	26
Patrick E. Keyes,	"	"	3
John Grady,	"	Ladder-house	12
Edward H. Sawyer,	"	"	4
Williston A. Gaylord,	"	Engine-house	18
George F. Griffin,	"	"	41
Lewis P. Abbott,	"	"	28

FORCE AND PAY-ROLL.

Commissioner	.	.	.	.	.	\$5,000	per annum.
Secretary	.	.	.	.	.	2,400	" "
Chief of Department	.	.	.	.	.	3,500	" "
First Assistant Chief	.	.	.	.	.	2,400	" "
Second " "	.	.	.	.	.	2,200	" "
Superintendent of Fire-alarms	.	.	.	.	.	3,200	" "
Assistant Superintendent of Fire-alarms,	.	.	.	.	.	2,000	" "
Superintendent of Repair-shop	.	.	.	.	.	2,000	" "
Asst. " " "	.	.	.	.	.	1,600	" "
Hydraulic Engineer	.	.	.	.	.	1,400	" "
Veterinary Surgeon	.	.	.	.	.	2,000	" "
Medical Examiner	.	.	.	.	.	600	" "
Purchasing Officer	.	.	.	.	.	1,600	" "
Foreman of Hose and Harness Shop	.	.	.	.	.	1,400	" "
Storekeeper	.	.	.	.	.	1,400	" "
1 Clerk	.	.	.	.	.	1,500	" "
1 " "	.	.	.	.	.	1,200	" "
2 " "	.	.	.	.	.	1,100	" "
1 " "	.	.	.	.	.	1,000	" "

11 District Chiefs	\$2,000	per annum.
53 Captains	1,600	" "
65 Lieutenants	1,400	" "
44 Engineers	1,300	" "
43 Assistant Engineers	1,200	" "
3 " "	1,000	" "
459 Permanent men.		
341 at	1,200	" "
42 at	1,100	" "
39 at	1,000	" "
28 at	900	" "
9 at	720	" "
86 Call-men.		
1 at	325	" "
18 at	250	" "
67 at	200	" "
2 Drivers for Assistant Chiefs	1 75	per day.
11 Drivers for District Chiefs	1 75	" "
2 Watchmen	1,000	per annum.
3 Hostlers (average).	1 95	per day.
1 Horse-shoer	3 00	" "

FIRE-ALARM FORCE.

6 Operators	\$1,600	per annum.
2 Assistant Operators	1,200	" "
1 Assistant Operator	2 75	per day.
1 Foreman of Construction	1,800	per annum.
17 Repairers (average)	2 93	per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300	per annum.
1 Engineer	3 00	per day.
1 Assistant Engineer	2 50	" "
1 Painter	3 75	" "
1 "	2 50	" "
2 Wheelwrights	3 25	" "
4 Machinists	3 25	" "
2 "	3 00	" "
2 Blacksmiths	3 50	" "
1 Blacksmith	3 25	" "
1 "	2 50	" "
2 Blacksmith's-helpers	2 50	" "
1 Hose and harness-repairer	1 50	" "
4 Laborers, (average)	2 10	" "

854 Total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte and Way streets and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica-way to Castleton street, through Castleton, Catalpa and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief of Command.	COMPANIES IN DISTRICTS.				
		Engines.	Chemical Engines.	Hook and Ladders.	Combination Companies.	Water Towers.
1.....	John F. Ryan	5, 9, 11, 40	7	* 2	4	
2.....	C. H. W. Pope.....	27, 32, 36	9	* 9	5, 7	
3.....	Joseph M. Garrity...	8, 25, 31, 44	.....	* 8, 14		
4.....	Peter F. McDonough,	* 4, 6, 10	1	1	8	1
5.....	Nathan L. Hussey...	7, * 26, 35	2	17		
6.....	John A. Mullen.....	* 1, 2, 15, 38, 39, 43	8	5	2, 3	
7.....	Patrick E. Keyes ...	* 3, 22, 33	4	3, 13, 15	.....	2
8.....	John Grady.....	13, 14, 37	3, 12	* 12		
9.....	Edward H. Sawyer..	12, 21, 23, 24	10	* 4	6	
10.....	Williston A. Gaylord,	16, 17, * 18, 19, 20	.....	6, 7	1	
11.....	George F. Griffin . .	29, 34, * 41	6	11		
12.....	Lewis P. Abbott.....	* 28, 30, 42, 45	5	10, 16		

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner :

Houses.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Dorchester street	5,698	\$25,800	Engine 1.
Corner of O and Fourth streets.....	4,000	16,400	Engine 2.
Bristol street and Harrison avenue ..	4,000	30,000	Engine 3 and Ladder 3.
Bulfinch street.....	6,098	90,000	Engine 4, Chemical 1 and Tower 1.
Marion street, East Boston.	1,647	9,000	Engine 5.
Leverett street.....	2,269	35,000	Engine 6.
East street	1,893	35,400	Engine 7.
Salem street.	2,568	18,300	Engine 8.
Paris street, East Boston.....	4,720	28,600	Engine 9 and Ladder 2.
River street.....	1,886	19,600	Engine 10.

Houses. — *Continued.*

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Saratoga and Byron streets, East Boston	10,000	\$37,500	Engine 11 and Combination 4.
Dudley street	7,320	24,900	Engine 12.
Cabot street	4,832	16,000	Engine 13.
Centre street	5,713	14,600	Engine 14.
Dorchester avenue	2,843	18,700	Engine 15.
River street, Dorchester District	12,736	18,500	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester Dist.,	9,450	17,300	Engine 17 and Ladder-house 7 on this lot.
Harvard street, Dorchester District ..	9,440	17,800	Engine 18.
Norfolk street " " ..	7,683	14,200	Engine 19.
Walnut street " " ..	9,000	9,200	Engine 20.
Columbia road " " ..	12,661	18,300	Engine 21.
Northampton street	3,445	13,200	Engine 23.
Corner Warren and Quincy streets ..	4,186	18,100	Engine 24.
Fort Hill square	4,175	77,700	Engine 25, Ladder 8 and Ladder 14.
Mason street	5,623	113,000	Engine 26 and Engine 35.
Elm street, Charlestown District	2,600	18,000	Engine 27.
Centre street, West Roxbury District,	10,377	28,300	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	37,200	Engine 29 and Ladder 11.
Centre street, West Roxbury District,	12,251	24,700	Engine 30.
Bunker Hill st., Charlestown District,	8,188	26,200	Engine 32.
Corner Boylston and Hereford sts. .	5,646	66,000	Engine 33 and Ladder 15.
Western avenue, Brighton	4,637	17,800	Engine 34.
Monument st., Charlestown District ..	5,668	21,000	Engine 36 and Combination 5.
Cor. Longwood and Brookline aves. .	5,400	12,600	Engine 37 and Chemical 3.
Congress street	4,000	34,000	Engine 38 and Engine 39.
Sumner street, East Boston	4,010	18,000	Engine 40.
Harvard avenue, near Cambridge st., Brighton District	6,112	25,500	Engine 41 and Chemical 6.
Washington street, between Atherton and Beethoven	3,848	22,900	Engine 42 and Chemical 5.
Andrew square	5,133	20,100	Engine 43 and Combination 3.
Poplar, corner Washington street, West Roxbury	14,729	18,700	Engine 45 and Ladder 16.
Church street	3,412	23,600	Chemical Engine 2.
Shawmut avenue	889	5,700	Chemical Engine 4.
Chelsea street, East Boston	1,346	10,400	Chemical Engine 7.

Houses. — Concluded.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
B street	1,894	\$7,800	Chemical Engine 8.
Eustis street	1,754	7,600	Chemical Engine 10.
Friend street	1,676	32,400	Ladder 1.
Dudley street	3,923	25,900	Ladder 4.
Fourth street	2,469	See Engine 1.	Ladder 5.
Main street, Charlestown	4,290	18,000	Ladder 9 and Chemical 9.
Tremont street	4,350	25,700	Ladder 12 and Chemical 12.
Washington, near Dover street	1,007	13,100	Ladder 13.
Harrison avenue	2,134	25,500	Ladder 17.
Dorchester avenue, Ashmont	4,875	22,400	Combination 1.
Fourth street	3,101	11,000	Combination 2.
Washington street, Dorchester	6,874	21,400	Combination 6.
Winthrop street	3,000	13,200	Combination 7.
North Grove street	3,918	18,000	Combination 8.

Assessed Valuation.

Fuel-house, Dorchester street, 1,610 feet of land	\$3,300 00
Fuel-house, Salem street, 417 feet of land	3,200 00
Fuel-house, Main street, Charlestown, 2,430 feet of land	7,000 00
Headquarters building and repair-shop, corner of Albany and Bristol streets, 23,663 feet	185,000 00
Engine No. 22, Water Tower No. 2 and Wrecking Wagon are in Headquarters building	
Old house of Engine 30, on Mt. Vernon street, West Roxbury, 16,275 feet of land	5,400 00
Veterinary Hospital, Atkinson street, 64,442 feet of land	39,110 00
7,500 feet of land on Warren avenue, purchased as a site for new house for Engine 22,	18,600 00

Engine Companies.

STEAM FIRE ENGINES. — Forty-three in service, located as follows: Twelve in city proper, four in East Boston, six in South Boston, five in Roxbury District, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

FIRE-BOAT. — One, located India Wharf.

HORSE HOSE CARRIAGES AND WAGONS. — Forty-three, located as follows, viz.: Twelve in city proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
1	Dorchester, near Fourth, S. B.,	Clapp & Jones Mfg. Co.,	April 1, 1890	8½	5	7	Third
2	Fourth, cor. O, South Boston,	Manchester Loco. Works,	Nov., 1890	6½	4	8	"
3	Harrison ave., cor. Bristol....	Clapp & Jones Mfg. Co.,	Aug. 22, 1890	9	5½	8	First
4	Bullfinch st.....	American Fire Eng. Co.,	Feb. 22, 1893	9	5¼	8	"
5	Marion st., East Boston.....	Amoskeag Mfg. Co.....	Nov., 1867	7½	4¾	8	Second
6	Leverett st.....	Silsby Mfg. Co.....	April, 1890	.....	.....	Rotary.	"
7	East st.....	American Fire Eng. Co.,	June, 1895	9	5½	8	First
8	Salem st.....	Manchester Loco. Works,	March 30, 1896	6¾	4½	8	Second
9	Paris st., East Boston.....	Hunnehan & Co.....	Oct. 14, 1872	7½	4½	8	"
10	Mount Vernon, cor. River st...	Manchester Loco. Works,	March 1, 1882	6¾	4½	8	"
11	Saratoga, cor. Byron st., E. B.,	Amoskeag Mfg. Co.....	April 9, 1873	6¾	4½	8	"
12	Dudley st.....	Manchester Loco. Works,	March 27, 1882	6¾	4½	8	"
13	Cabot st.....	Clapp & Jones Mfg. Co.,	April 1, 1890	8½	5	7	"
14	Centre st.....	Amoskeag Mfg. Co.....	Sept. 17, 1870	7½	4¾	8	"
15	Dorchester ave. and Broadway,	American Fire Eng. Co.,	Feb., 1893	9	5½	8	First
16	Temple st., Dorchester.....	Silsby Mfg. Co.....	April 8, 1890	.....	.....	Rotary.	Second
17	Meeting House Hill, Dor.....	Amoskeag Mfg. Co.....	May, 1886	6¾	4½	8	"
18	Harvard st., Dorchester.....	Manchester Loco. Works,	Nov., 1890	6½	4	8	Third

FIRE DEPARTMENT.

11

19	Norfolk st., Dorchester.....	Clapp & Jones Mfg. Co., Dec. 5, 1891	7	4 $\frac{3}{4}$	7	"
20	Walnut st., Dorchester.....	Manchester Loco. Works, Nov., 1890	6 $\frac{1}{2}$	4	8	"
21	Columbia road, Dorchester.....	Clapp & Jones Mfg. Co., Dec. 10, 1893	7	4 $\frac{3}{4}$	7	"
22	Bristol st.....	Silsby Mfg. Co.....	.....	.....	Rotary.	Second
23	Northampton st.....	Silsby Mfg. Co.....	.....	.....	Rotary.	Third
24	Warren, cor. Quincy st.....	Clapp & Jones Mfg. Co., Feb. 24, 1888	7	4 $\frac{3}{4}$	8	First
25	Fort Hill sq.....	Manchester Loco. Works, Nov., 1896	7 $\frac{3}{4}$	4 $\frac{3}{4}$	8	Extra first size.
26	Mason st.....	La France Fire Eng. Co., June, 1895	8 $\frac{1}{2}$	5 $\frac{1}{2}$	9	Second size.
27	Elm st., Charlestown.....	Amoskeag Mfg. Co.....	4 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
28	Centre st., West Roxbury.....	Silsby Mfg. Co.....	.....	.....	Rotary.	"
29	Chestnut Hill ave., Brighton..	Hunnean & Co.....	7 $\frac{1}{2}$	4 $\frac{3}{4}$	8	Third
30	Centre st., West Roxbury....	Clapp & Jones Mfg. Co., Oct. 9, 1891	7	4 $\frac{3}{4}$	7	"
31	Central Wharf (spare Fire-boat),	Clapp & Jones Mfg. Co., July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown..	Manchester Loco. Works, March 28, 1884	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.
33	Boylston st.....	Silsby Mfg. Co.....	.....	.....	Rotary.	"
34	Western ave., Brighton.....	Feb. 20, 1888	.....	.....	.....	"
35	Mason st.....	Amoskeag Mfg. Co.....	7 $\frac{3}{4}$	4 $\frac{1}{2}$	8	"
		Manchester Loco. Works, Dec., 1869	.....	.....	.....	"
		Self-propeller.....	.....	.....	.....	Double extra first size.
36	Monument st., Charlestown....	Manchester Loco. Works, Jan., 1898	9 $\frac{1}{2}$	5 $\frac{1}{2}$	8	"
37	Longwood ave.....	Dec., 1890	6 $\frac{1}{2}$	4	8	Third size.
38	Congress st., South Boston....	Manchester Loco. Works, March, 1896	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
		Manchester Loco. Works, June, 1897	9 $\frac{1}{2}$	5 $\frac{1}{2}$	8	Double extra first size.
39	Congress st., South Boston....	Self-propeller.....	.....	.....	.....	First size.
40	Summer st., East Boston.....	Clapp & Jones Mfg. Co., April 1, 1890	9	5 $\frac{1}{2}$	8	"
41	Harvard ave., Brighton.....	Silsby Mfg. Co.....	.....	.....	Rotary.	Third
42	Egleston sq., West Roxbury....	Clapp & Jones Mfg. Co., Feb., 1893	7	4 $\frac{3}{4}$	7	"
43	Andrew sq., South Boston....	American Fire Eng. Co., Feb., 1893	.....	.....	Rotary.	"
		Clapp & Jones Mfg. Co., March 3, 1893	7	4 $\frac{3}{4}$	7	"
44	India Wharf (Fire-boat).....	American Fire Eng. Co., Aug., 1895	12 $\frac{1}{2}$ H. 18 L.	P. 10	10	2 sets of pumps 6,520 gallons.*
45	Washington, cor. Poplar st., West Roxbury.....	American Fire Eng. Co., Jan., 1895	7	4 $\frac{3}{4}$	7	Third size.

* At 225 revolutions per minute.

In Reserve.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
A	Old 8	Freeman & Juckett.....	April 26, 1869	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
B	Old 10	Amoskeag Mfg. Co.....	Feb., 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
C	.....	Manchester Loco. Works,	Dec., 1879	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
D	Old 17 (Crane neck)	Manchester Loco. Works,	May, 1886	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
E	Old 4 (Straight frame)	Amoskeag Mfg. Co.....	Nov., 1867	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"
F	Old 1	Amoskeag Mfg. Co.....	Sept., 1872	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"
G	Old 25	Amoskeag Mfg. Co.,	Nov., 1890	9	5 $\frac{1}{2}$	8	First
H	Old 37	Manchester Loco. Works,	July, 1867	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	Second
I	Old 35	Clapp & Jones Mfg. Co.,	Aug., 1890	9	5 $\frac{1}{2}$	8	First

Also five hose wagons.

Chemical Companies.

CHEMICAL ENGINES. — Eleven in service, self-acting, located as follows: Three in the city proper, one in East Boston, one in Charlestown, one in South Boston, three in Roxbury, one in West Roxbury, and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Capacity.
1	Bulfinch st.	Babcock Manufacturing Co....	Oct., 1890	Gals. 100
2	Church st.	"	April 25, 1874	160
3	Longwood ave.	"	July 27, 1874	100
4	Shawmut ave.	Rebuilt by Hinman in 1886	Used as a spare engine and put in service Dec. 20, 1895,	100
5	Egleston sq.	Altered by Hinman.....	Sept. 21, 1876	170
6	Harvard ave., near Cambridge st., Brighton,	"	May 1, 1876	160
7	Chelsea st., East Boston	"	Sept. 27, 1886	100

8	B st., South Boston.....	"	"	Oct. 27, 1887	160
9	Main st., Charlestown	"	"	July 17, 1889	100
10	Eustis st.....	"	"	Sept. 13, 1889	100
12	Tremont st.....	Charles T. Holloway		Sept., 1896	80

In Reserve.

	Old Chemical 2	Charles T. Holloway.....			100
	Spare	Babcock Manufacturing Co.....			100
	Old Chemical 11	"			100

Ladder Companies.

HOOK AND LADDER CARRIAGES.—Seventeen in service, including five extension ladder trucks, located as follows, viz.: Seven in city proper, one in East Boston, two in Roxbury, one in South Boston, two in Dorchester, one in Charlestown, two in West Roxbury, and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Number of Ladders.
1	Warren sq.....	Hunneman & Co.....	December 20, 1869	12
2	Paris st., East Boston.....	Rebuilt by T. Strangman & Son.....	1899	12
3	Harrison ave., cor. Bristol st.....	Abbott-Downing Co.....	June 2, 1886	14
4	Dudley st., Highland District.....	"	April 25, 1884	15
5	Fourth st., near Dorchester	Hunneman & Co.....	March 3, 1870	17
6	Temple st., Dorchester.....	"	Aug. 18, 1873	17
7	Meeting House Hill....	C. T. Holloway & Co.....	July 28, 1898	10

Ladder Companies. — *Concluded.*

Number.	Location.	Builders.	Put in Service.	Number of Ladders.
8.....	Fort Hill sq.....	Fire Department Repair-shop..	Aug. 23, 1898	12
9.....	Main st., Charlestown.....	Leverich & Co., N. Y.....	Oct. 6, 1872	15
10.....	Centre st., Jamaica Plain.....	Hunnehan & Co.....	Dec. 21, 1870	12
11.....	Chestnut Hill ave., Brighton.....	".....	April 13, 1872	14
12.....	Tremont st., Highland District.....	Ryan Bros.....	July 31, 1880	15
13.....	Washington st., near Dover.....	La France Fire-Engine Co., Elmira, N. Y.....	March 12, 1890	Hayes Extension
14.....	Fort Hill sq.....	Fire Extinguisher Manufacturing Co., Chicago,	Jan. 30, 1893	Extension
15.....	Boylston st.....	".....	April 28, 1888	Extension
16.....	Roslindale.....	Repair-shop.....	Sept., 1888	15
17.....	Harrison ave.....	Preston Co., Chicago..	April 29, 1891	Extension 87 feet

Ladder Trucks. — *In Reserve.*

Description.	Builders.
Relief B, old 8.....	Fire Department Repair-shop.
Old Ladder 11.....	Hunnehan & Co.
" " 4.....	La France Fire-engine Co., Elmira, N. Y.....
" " 8.....	Abbott & Downing.
	Extension.

Combination Companies.

COMBINATION TRUCKS. — Five in service, located as follows: One in city proper, one in East Boston, one in South Boston, one in Charlestown, and one in Dorchester.

COMBINATION WAGONS. — Three in service, located as follows: One in Dorchester, one in South Boston, and one in Charlestown.

Number.	Location.	Built by		Put in Service.	Capacity.
1.....	Dorchester ave., Ashmont....	Charles T. Holloway.....	Chemical and Hose ..	March, 1892	<i>Gals.</i> 70
2.....	Fourth st., South Boston.....	" "	" " ..	May, 1893	70
3.....	Andrew sq., South Boston....	Fire Extinguisher Mfg. Co.	" " Ladder.	Jan., 1898	70
4.....	Saratoga, cor. Byron st., E. B.,	Charles T. Holloway.....	" " " ..	Jan., 1898	70
5.....	Monument st., Charlestown..	" "	" " " ..	Jan., 1898	70
6.....	Washington st., Dorchester...	Fire Extinguisher Mfg. Co.	" " " ..	Nov. 8, 1898	70
7.....	Winthrop st., Charlestown...	" " ..	" " Hose ..	April 29, 1898	70
8.....	North Grove st.....	" " ..	" " Ladder.	Nov. 1, 1899	70

Water Towers.

WATER-TOWERS. — Two, located in city proper.

Number.	Location.	Builders.	Put in Service.
1.....	Bulfinch st.....	Kansas City Fire Department Supply Co.....	May 17, 1890
2.....	Bristol st.....	" " " "	Dec. 18, 1893

PORTABLE EXTINGUISHERS. — Carried on all of the ladder trucks and hose-wagons and located in the department houses.
FUEL-WAGONS. — Thirty-nine, each capable of conveying about two tons.

WAGONS. — Seventeen for chief of department and district chiefs (fourteen in service and three in reserve) and one buggy.
PUMPS. — Forty-eight; forty-three for carrying hose, two for jobbing and three for Fire-alarm branch. District chiefs' sleighs, seven.

SPARE APPARATUS. — Nine steam fire-engines, four hook-and-ladder carriages, three chemical engines, one hose-pump, one salt-pump, five hose-wagons and one fire-boat.

REPAIR-SHOP. — In the repair-shop, one 25-horse-power steam-engine, cylinder, 9 by 31 inches, Putnam Machine Company; one 26-inch by 26-inch iron planer, 8-ft. table, 12-ft. bed; two 14-inch swing engine lathes, 6-ft. bed; one 14-inch swing engine lathe, 10-ft. bed; one No. 2 upright drill; four blacksmith's forges; one furnace for heating tires; one 28-inch swing standard engine lathe; one 14-inch speed lathe, 5-ft. bed; one 14-inch swing patent engine lathe, 5-ft. bed; one 25-inch shaping machine, one 68-inch radial drill, one duplex and one Blake pump for feeding boilers, one Knowles triplex pump for testing hose, one patent goose-neck belt drill, one band saw, one circular saw, one monarch boring machine, together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

Three upright tubular boilers, 100-horse power.

Two dynamos for lighting and fire-alarm, one tire upsetter in the blacksmith shop, one No. 2 Blake pump in the hose and harness-shop for testing hose.

NEW APPARATUS PURCHASED DURING THE YEAR.

2 pairs 35-gallon chemical tanks for ladder-trucks.

1 large-sized hose-wagon.

1 combination ladder and chemical engine.

Amount of hose purchased and condemned during the year:

	Purchased.	Condemned.
Leading cotton,	4,250 feet	8,050 feet.
“ rubber,	2,100 “	2,350 “
Chemical,	2,000 “	850 “
Suction,	76 “	58 “
	<hr/>	<hr/>
Totals,	8,426 “	11,308 “

Amount of hose in use and in store February 1, 1900.

	In use.	In store.
Leading cotton,	78,050 feet.	7,200 feet.
“ rubber,	8,450 “	2,600 “
Chemical,	8,950 “	1,200 “
Suction,	946 “	152 “
	<hr/>	<hr/>
Totals,	96,396 “	11,152 “

HORSES.

Purchased during the year	.	.	.	.	.	.	43
Sold or exchanged	.	.	.	.	.	.	18
Died	.	.	.	.	.	.	3
Killed for cause	.	.	.	.	.	.	7
Number in the department	.	.	.	.	.	.	350

MONTHS. 1899-1900.	ALARMS RECEIVED.						LOSS.		INSURANCE.		ALARMS.			Confined to buildings.	Extended to others.	Needless still alarms.	BUILDINGS.				Out of city.	Wharves, Vessels, Coal and Wood piles, Bonfires, etc.			
	From Whom.						Buildings.	Contents.	Buildings.	Contents.	Telegraph.						No damage.	Slight damage.	Considerable damage.	Totally destroyed.					
	Fire patrol.	Members.	Police.	Citizens.	Automatic.	Unknown.					Accidental.	Total.													
1899.																									
February	2	7	25	156	7	.....	.....	197	\$51,709	\$58,396	\$948,940	\$393,398	95	.....	8	94	155	4	19	53	96	13	1	1	10
March .....	....	2	17	125	8	1	1	154	79,687	152,217	1,148,875	520,800	72	1	5	76	123	3	12	52	73	9	3	1	9
April.....	1	11	20	202	9	3	1	247	146,881	208,368	1,587,696	945,972	125	3	7	112	155	5	12	62	88	13	3	2	63
May.....	1	8	15	186	8	.....	.....	218	46,750	29,689	942,682	183,592	112	.....	15	91	134	6	16	58	87	14	7	2	45
June.....	1	12	24	203	5	4	.....	249	75,248	70,028	859,912	255,578	127	5	5	112	160	11	8	75	96	15	9	3	57
July	3	14	41	275	4	2	.....	339	55,435	101,209	982,183	467,100	163	4	2	170	197	6	13	78	111	15	6	4	113
August.....	....	6	18	143	6	.....	.....	173	52,762	53,859	475,474	668,400	82	.....	6	85	126	3	17	55	67	10	....	1	20
September....	....	7	16	118	11	.....	.....	152	16,645	19,666	461,800	90,150	76	.....	6	70	112	....	13	49	57	5	1	1	20
October.....	1	7	19	108	10	2	.....	147	18,123	10,693	464,980	118,404	69	2	11	65	92	2	15	45	48	4	1	4	21
November.....	1	9	20	129	8	1	.....	168	48,632	60,330	893,222	313,438	81	3	8	76	120	1	14	50	60	10	2	2	20
December. . .	....	4	24	156	9	2	.....	196	58,056	140,150	1,874,434	1,155,775	103	3	4	85	143	5	17	52	85	15	4	3	20
1900.																									
January.....	....	10	18	158	15	3	.....	204	35,493	40,123	1,169,600	458,800	99	2	14	89	156	6	19	55	97	16	....	....	7
Totals.....	10	97	257	1,959	100	18	2	2,443	\$685,421	\$944,728	\$11,809,798	\$5,571,407	1,204	23	91	1,125	1,673	52	175	684	965	139	37	24	405

CAUSES OF FIRES AND ALARMS FROM FEBRUARY 1, 1899,
TO FEBRUARY 1, 1900.

Alarms, accidental, automatic	81
“ false	23
“ out-of-city	24
Accidental breaking of box	2
Ashes, hot, in wooden receptacle	28
Back draft	1
Boys setting off cannon crackers	1
Boiling over of fat or tar	34
Bonfires, grass, rubbish, etc., set by boys	283
Careless use of lamps, candles, etc.	58
“ “ “ pipes and cigars in smoking	34
“ “ “ fire	3
“ “ “ blow-pipe	1
Chimneys, soot burning	97
“ defective	32
“ overheated	6
Chinaman being robbed	1
Clothes too near stove	10
Defective flue	6
“ stove-pipe	3
“ grate or fireplace	6
“ furnace	2
“ sprinkler	2
Electric motor igniting car	20
“ wires	37
Explosion and ignition of chemicals	9
Fireworks	61
Friction	7
Fumigating	2
Gas, explosion of	2
“ ignition of leaky pipes	3
“ jet setting fire	58
Incendiary	43
“ supposed	18
Lamp explosion	69
“ upsetting and breaking	116
Light mistaken for fire	16
Lightning	1
Matches and rats	29
“ “ children	87
“ careless use of	138
Meat burning on stove	3
Naphtha, careless use of, and ignition	11

Oil stove, careless use of, and explosion	67
Gas stove, " " " "	10
Overflow of sewer-pipe	1
Plastering, drying	5
Overheated boiler or steam-pipe	11
" coke	2
" motor	1
" oven	5
" stove or furnace	67
Rekindling of ruins of previous fire	4
Plumber's stove upsetting	6
Slacking of lime	3
Smoky chimneys	42
" stove or furnace	47
Sparks from another fire	24
" " furnace or stove	26
" " chimney	34
" " forge	6
" " a flash-light	1
" " engine or locomotive	76
Spontaneous combustion	57
Steam escaping	5
Street fight	1
"Stop thief," mistaken for call of "fire"	1
Testing-box	1
Trench caving in	1
Unknown	439
Upsetting of stove	2
Use of kerosene to light fire	2
Water-pipes, thawing out	26
Wood drying in oven	2

Total	2,443
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Total number of actual fires	2,130
Confined to one building	1,673
Extended to others	52
Wharves, vessels, grass, etc.	405
Out of the city	24

Buildings.

Slightly damaged	965
Considerably damaged	139
Totally destroyed	37
Not damaged	684

Extinguished by

Extinguishers	469
Buckets of water	252
Chemical engines	407
Hydrant stream	222
Steamers	386
Miscellaneous, brooms, stamping out and smothering,	118
Citizens	273
Sprinklers	3
Total	<u>2,130</u>

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells :

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.

Bunker Hill School-house, Charlestown, composition, 2,009 lbs., owned by city.

City Hall, Charlestown, composition, 3,600 lbs., owned by city.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.

Engine-house No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs., owned by city.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.

Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by city.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house, Mt. Vernon street, West Roxbury, steel, 1,000 lbs., owned by city.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.

Engine-house No. 40, Orleans street, East Boston, composition, 817 lbs., owned by city.

Engine-house No. 41, Allston, composition, 900 lbs., owned by city.

Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.

Lewis School-house, Dale street, Boston Highlands, composition, 3,104 lbs., owned by city.

- Maverick-street Church, East Boston, composition, 2,000 lbs.
Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.
Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.
Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.
Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

- Berkeley Temple, composition, 2,941 lbs. Formerly used on Quincy School-house.
Chapman School-house, steel, 3,109½ lbs., taken down and stored by Public Buildings Department.
Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.
Engine-house No. 2, composition, 800 lbs.
Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs.
Engine-house No. 21, Boston street, Dorchester, composition, 3,026 lbs.
Faneuil Hall, steel, 5,816 lbs.
Hook-and-ladder House No. 4, Dudley street, Boston Highlands, composition, 3,509 lbs.
Lawrence School-house, B street, South Boston, steel, 3,400 lbs.
Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.
Smith-street School-house, Highlands, composition, 4,083 lbs.
Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.
Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.
Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.
Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-eight in number, are taken care of by the Fire Department:

City Proper.

Arlington-street Church.
Charles-street Church.
Christ Church, Salem street, owned by city.
Commercial Wharf.
Odd Fellows' Hall, Tremont street, owned by city.
Old South Church, owned by city.
Old State House, owned by city.
Park-street Church.
Suffolk County Jail, owned by city.
St. Stephen's Church, Clark street, owned by city.
Shawmut-avenue Church.
Tremont M. E. Church, owned by city.
Young Men's Christian Union, owned by city.

South Boston.

Gaston School-house, owned by city.
Lincoln School-house, owned by city.
Phillips Church, owned by city.
St. Augustine Church, Dorchester street, owned by city.
Ticknor School-house, Washington Village, owned by city.

East Boston.

Central-square Church.
London-street Church, owned by city.
Lyceum Hall, owned by city.
Trinity Church, owned by city.
Orient Heights Church, owned by city.

Boston Highlands.

Winthrop-street Church, owned by city.
West End stables, Tremont street, owned by city.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.
Neponset Church.
Tileston School (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.

City Hall, owned by city.

Harvard Hill Church.

High School-house, owned by city.

Unitarian Church.

West Roxbury.

Dr. Strong's Church.

Unitarian Church.

Congregational Church (Roslindale), owned by city.

Brighton.

Bennett School-house, owned by city.

The following Fire-alarm boxes are private property : 115, 149, 152, 161, 163, 164, 165, 212, 227, 228, 244, 271, 279, 281, 283, 299, 342, 358, 422, 442, 443, 445, 446, 447, 448, 449, 495, 511, 533, 617, 619, 623, 624, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 726, 727, 728, 729, 731, 732, 733, 735, 737, 738, 739, 741, 742, 744, 745, 746, 755, 758, 759, 762, 766, 767, 769, 773, 778, 779, 789, 791, 792, 793, 794, 795, 797, 799, 816, 828, 838, 842, 864, 865, 919, 927, 967, 969, 971, 974.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.

ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

YEAR 1900-1901



BOSTON

MUNICIPAL PRINTING OFFICE

1901

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Boston Fire Department.

Dec. 12, 1903.



1901

FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 20, 1901.

HIS HONOR THOMAS N. HART, *Mayor*:

SIR,—No radical change has been made in this Department during the last year; the practice of strengthening, as far as possible, the present locations by equipment, rather than by the building of new houses for new companies, has been followed; and, in my opinion, should be adhered to for some years to come, inasmuch as the present Department is sufficient to provide reasonable protection in the various districts; and it does not seem fair to expect the City to furnish engine and ladder companies for the purpose of providing the outlying districts with that protection which is necessary to prevent conflagrations in the business quarters. While the losses on buildings during the year have been some \$170,000 less than those of 1899, the losses on contents have exceeded those of 1899 by some \$240,000; which figures may show the effect of large streams of water, without which a conflagration has the advantage. It is a source of congratulation that no fire has "got away" from the Department, although we are well aware that the dreaded conflagration may at any time assume proportions not reached of late.

Our Roll of Merit contains the names of:

N. L. Hussey	Engine 23.
E. H. Sawyer	Ladder 4.
E. H. Sawyer	" 4.
J. F. Bailey	Ladder 17.
Eugene Rogers	" 1.
Captain Peter Callahan . . .	Engine 4.
Lieut. J. A. Kelley	Chemical 1.
T. J. Heffron	Engine 4.
J. E. Downey	" 6.
F. F. Leary	Ladder 12.
Florence Donoghue	Combination 8.
Captain J. J. O'Connor . . .	Engine 7.
Lieut. J. F. McMahon . . .	Combination 8.
M. A. Kenealy	Engine 7.
D. Driscoll	" 7.
W. H. Magner	Ladder 8.

All of whom have distinguished themselves by exceptionally good work on occasion; but the success in putting out fires, which the Department has attained, has been owing to the perpetual vigilance and uniform zeal of all the officers and men without distinction. Hoseman Herbert Pierce of Engine 42 and Hoseman Patrick J. McCarthy of Engine 8 have died during the year from injuries received while on active duty.

Ninety-six (96) members were injured, and were off duty a total of 2,973 days, an average of 31 days each.

The Fire-Alarm Branch of the Department has continued its good work during the last year, having successfully struck 9,260,476 blows in performing its duty; and no fire-alarm box has failed in its work of properly transmitting alarms from the street to headquarters.

The new Veterinary Hospital has answered all requirements, ^{one} no horse, among the 358 employed, having died of disease during the year.

The large self-propelling engines have continued their good service, and certainly are a marked success in dealing with fire through their large streams, while their motive power has proved very effective.

The electric signal, by means of wire inserted through the hose giving direct communication with the engine, has proved of much service in preventing the delay necessary when water has to be called for by messenger, it having been adopted for 10 engines in the City proper.

The adoption of rubber tires has greatly increased the ease of travel of apparatus, as well as saved much wear and tear, and their further adoption will be continued as fast as practicable.

The adoption of outside standpipes on high buildings does not progress as fast as the interests of property would seem to demand; while fire-escapes, where built, are often of a character to insure disaster to those citizens of ordinary vocations who may be required to use them; in my opinion, the best outside escape is that at present attached to the Franklin School on Waltham street.

Besides the danger from the many well known fire-traps throughout the city, the large buildings of iron construction, when used for the storage of wool and other combustible material, add, in my opinion, to the gravity of the situation by their readiness to twist and fall when subjected to severe heat, and thus become a menace to a fire department.

The wooden villages springing up in the country districts continue to offer ready fuel for the flames; but as long as owners prefer to oppose all attempts to extend the lines on which brick buildings must be built, the Fire Department and insurance companies must stand in the gap as best they can.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL; term expires May, 1901.

Secretary, BENJAMIN F. UNDERHILL.

Chief of Department, LEWIS P. WEBBER.

Assistant Chief, WILLIAM T. CHESWELL.

Second Assistant Chief and Chief of District No. 6, JOHN A. MULLEN.

Superintendent of Fire-alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire-alarms, CYRUS A. GEORGE.

Superintendent of Repair-shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair-shop, EUGENE M. BYINGTON.

Hydraulic Engineer, GREELY S. CURTIS.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. KNIGHT.

Foreman of Hose and Harness-shop, PATRICK B. HANNON.

Consulting Electrician, HENRY F. COTTLE [absent].

Master Carpenter, THOMAS C. HANEY.

CLERKS.

William E. Delano, M. J. Lafferty, George F. Murphy,
James P. Maloney, D. J. Quinn.

District Chiefs.

John F. Ryan,	Headquarters,	Ladder-house	2
C. H. W. Pope,	"	"	9
Joseph M. Garrity,	"	"	8
Peter F. McDonough,	"	Engine-house	4
Nathan L. Hussey,	"	"	26
Patrick E. Keyes,	"	"	22
John Grady,	"	Ladder-house	12
Edward H. Sawyer,	"	"	4
Williston A. Gaylord,	"	Engine-house	18
Hiram D. Smith,	"	"	41
Lewis P. Abbott,	"	"	28

FORCE AND PAY-ROLL, FEBRUARY 1, 1901.

Commissioner	\$5,000 per annum.
Secretary	2,500 " "
Chief of Department	3,500 " "
First Assistant Chief	2,400 " "
Second " "	2,200 " "
Superintendent of Fire-alarms	3,200 " "
Assistant Superintendent of Fire-alarms,	2,000 " "
Superintendent of Repair-shop	2,000 " "
Asst. Superintendent of Repair-shop	1,800 " "
Hydraulic Engineer	1,600 " "
Veterinary Surgeon	2,000 " "
Medical Examiner	900 " "
Purchasing Officer	1,600 " "
Foreman of Hose and Harness Shop	1,400 " "
Storekeeper	1,400 " "
Master Carpenter	1,300 " "
Bookkeeper	1,650 " "
3 Clerks	1,400 " "
1 Clerk	1,100 " "
11 District Chiefs	2,000 " "
53 Captains	1,600 " "
66 Lieutenants	1,400 " "
47 Engineers	1,300 " "
40 Assistant Engineers	1,200 " "
4 " "	1,100 " "

FIRE DEPARTMENT.

5

470 Permanent men.

356 at	1,200 per annum.
37 at	1,100 " "
30 at	1,000 " "
27 at	900 " "
20 at	720 " "

83 Call-men.

1 at	325 " "
14 at	250 " "
68 at	200 " "
11 Chiefs' Drivers	1 75 per day.
2 Watchmen	1,000 per annum.
3 Hostlers (average)	1 95 per day.
1 Horseshoer	3 00 " "

FIRE-ALARM FORCE.

6 Operators	\$1,600 per annum.
3 Assistant Operators	1,200 " "
1 Foreman of Construction	1,800 " "
17 Repairers (average)	2 94 per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300 per annum.
1 Engineer	3 00 per day.
1 Assistant Engineer	2 50 " "
1 Painter	3 75 " "
1 "	2 50 " "
2 Wheelwrights	3 25 " "
4 Machinists	3 25 " "
1 Machinist	3 00 " "
2 Blacksmiths	3 50 " "
1 Blacksmith	3 25 " "
3 Blacksmiths' helpers	2 50 " "
1 Hose and harness-repairer	1 50 " "
5 Laborers (average)	2 04 " "

863 Total force.

FORCE AND PAY-ROLL, FEBRUARY 1, 1900.

Commissioner	\$5,000 per annum.
Secretary	2,400 " "
Chief of Department	3,500 " "
First Assistant Chief	2,400 " "
Second " "	2,200 " "

Superintendent of Fire-alarms	3,200	per annum.
Assistant Superintendent of Fire-alarms,	2,000	" "
Superintendent of Repair-shop	2,000	" "
Asst. Superintendent of Repair-shop	1,600	" "
Hydraulic Engineer	1,400	" "
Veterinary Surgeon	2,000	" "
Medical Examiner	600	" "
Purchasing Officer	1,600	" "
Foreman of Hose and Harness Shop	1,400	" "
Storekeeper	1,400	" "
1 Clerk	1,500	" "
1 "	1,200	" "
2 "	1,100	" "
1 "	1,000	" "
11 District Chiefs	2,000	" "
53 Captains	1,600	" "
65 Lieutenants	1,400	" "
44 Engineers	1,300	" "
43 Assistant Engineers	1,200	" "
3 " "	1,000	" "
459 Permanent men.		
341 at	1,200	" "
42 at	1,100	" "
39 at	1,000	" "
28 at	900	" "
9 at	720	" "
86 Call-men.		
1 at	325	" "
18 at	250	" "
67 at	200	" "
2 Drivers for Assistant Chiefs	1 75	per day.
11 Drivers for District Chiefs	1 75	"
2 Watchmen	1,000	per annum.
3 Hostlers (average)	1 95	per day.
1 Horseshoer	3 00	"

FIRE-ALARM FORCE.

6 Operators	\$1,600	per annum.
2 Assistant Operators	1,200	" "
1 Assistant Operator	2 75	per day.
1 Foreman of Construction	1,800	per annum.
17 Repairers (average)	2 93	per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300	per annum.
1 Engineer	3 00	per day.

1 Assistant Engineer	2 50	per day.
1 Painter	3 75	"
1 "	2 50	"
2 Wheelwrights	3 25	"
4 Machinists	3 25	"
2 "	3 00	"
2 Blacksmiths	3 50	"
1 Blacksmith	3 25	"
1 "	2 50	"
2 Blacksmiths' helpers	2 50	"
1 Hose and Harness-repairer	1 50	"
4 Laborers (average)	2 10	"

854 Total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park, and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle, and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte, and Way streets and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin, and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica way to Castleton street, through Castleton, Catalpa, and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart, and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows:

District.	Chief in Command.	COMPANIES IN DISTRICTS.				
		Engines.	Chemical Engines.	Hook and Ladders.	Combination Companies.	Water Towers.
1.....	John F. Ryan.....	5, 9, 11, 40	7	* 2	4	
2.....	C. H. W. Pope.....	27, 32, 36	9	* 9	5, 7	
3.....	Joseph M. Garrity...	8, 25, 31, 44	.....	* 8, 14	.....
4.....	Peter F. McDonough	* 4, 6, 10	1	1	8	1
5.....	Nathan L. Hussey ...	7, * 26, 35	2	17	.....
6.....	John A. Mullen.....	* 1, 2, 15, 38, 39, 43	8	5	2, 3	
7.....	Patrick E. Keyes	3, * 22, 33	4	3, 13, 15	.....	2
8.....	John Grady.....	13, 14, 37	3, 12	* 12	.....
9.....	Edward H. Sawyer ..	12, 21, 23, 24	10	* 4	6	
10.....	Williston A. Gaylord	16, 17, * 18, 19, 20	.....	6, 7	1	
11.....	Hiram D. Smith	29, 34, * 41	6	11	.....
12.....	Lewis P. Abbott	* 28, 30, 42, 45	5	10, 16	9	

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner:

Houses.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Dorchester st.	5,698	\$25,800	Engine 1.
Corner of O and Fourth sts.....	4,000	16,400	Engine 2.
Bristol street and Harrison ave.....	4,000	30,000	Engine 3 and Ladder 3.
Bulfinch st.	6,098	90,000	Engine 4, Chemical 1 and Tower 1.
Marion st., East Boston	1,647	9,000	Engine 5.
Leverett st.	2,269	35,000	Engine 6.
East st.	1,893	35,400	Engine 7.
Salem st.....	2,568	18,300	Engine 8.

Houses.—Continued.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Paris st., East Boston	4,720	28,600	Engine 9 and Ladder 2.
River st.	1,886	19,600	Engine 10.
Saratoga and Byron sts., East Boston,	10,000	37,500	Engine 11 and Combination 4.
Dndley st.....	7,320	24,900	Engine 12.
Cabot st.	4,832	16,000	Engine 13.
Centre st.	5,713	14,600	Engine 14.
Dorchester ave.....	2,843	18,700	Engine 15.
River st., Dorchester District	12,736	18,500	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester District	9,450	17,300	Engine 17 and Ladder-house 7 on this lot.
Harvard st., Dorchester District.....	9,440	17,800	Engine 18.
Norfolk st., " "	7,683	14,200	Engine 19.
Walnut st., " "	9,000	9,200	Engine 20.
Columbia road, " "	12,661	18,300	Engine 21.
Northampton st.	3,445	13,200	Engine 23.
Corner Warren and Quincy sts.....	4,186	18,100	Engine 24.
Fort Hill sq.	4,175	77,700	Engine 25, Ladder 8 and Ladder 14.
Mason st.	5,623	113,000	Engine 26 and Engine 35.
Elm st., Charlestown District	2,600	18,000	Engine 27.
Centre st., Jamaica Plain.....	10,377	28,300	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	37,200	Engine 29 and Ladder 11.
Centre st., West Roxbury District....	12,251	24,700	Engine 30 and Combination 9.
Bunker Hill st., Charlestown District,	8,188	26,200	Engine 32.
Corner Boylston and Hereford sts. ..	5,646	66,000	Engine 33 and Ladder 15.
Western ave., Brighton	4,637	17,800	Engine 34.
Monument st., Charlestown District..	5,668	21,000	Engine 36 and Combination 5.
Cor. Longwood and Brookline aves...	5,400	12,600	Engine 37 and Chemical 3.
Congress st.....	4,000	34,000	Engine 38 and Engine 39.
Sumner st., East Boston.....	4,010	18,000	Engine 40.
Harvard ave., near Cambridge st., Brighton District.....	6,112	25,500	Engine 41 and Chemical 6.
Washington, between Atherton and Beethoven sts.....	3,848	22,900	Engine 42 and Chemical 5.
Andrew sq.	5,133	20,100	Engine 43 and Combination 3.
Washington, corner Poplar st., Roslindale	14,729	18,700	Engine 45 and Ladder 16.
Church st.....	3,412	23,600	Chemical Engine 2.
Shawmut ave.	889	5,700	Chemical Engine 4.

Houses.— Concluded.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Chelsea st., East Boston.....	1,346	10,400	Chemical Engine 7.
B st.....	1,804	7,800	Chemical Engine 8.
Eustis st.....	1,754	7,600	Chemical Engine 10.
Friend st.....	1,676	32,400	Ladder 1.
Dudley st.....	3,923	25,900	Ladder 4.
Fourth st.....	2,469	See Engine 1.	Ladder 5.
Main st., Charlestown.....	4,290	18,000	Ladder 9 and Chemical 9.
Tremont st.....	4,350	25,700	Ladder 12 and Chemical 12.
Washington, near Dover st.....	1,007	13,100	Ladder 13.
Harrison ave.....	2,134	25,500	Ladder 17.
Dorchester ave., Ashmont.....	4,875	22,400	Combination 1.
Fourth st.....	3,101	11,000	Combination 2.
Washington st., Dorchester.....	6,874	21,400	Combination 6.
Winthrop st.....	3,900	13,200	Combination 7.
North Grove st.....	3,918	18,000	Combination 8.

Assessed Valuation.

Fuel-house, Dorchester street, 1,610 feet of land	\$3,300 00
Fuel-house, Salem street, 417 feet of land	3,200 00
Fuel-house, Main street, Charlestown, 2,430 feet of land	7,000 00
Headquarters building and repair-shop, corner of Albany and Bristol streets, 23,663 feet	185,000 00
Engine No. 22, Water Tower No. 2 and Wrecking Wagon are in Headquarters building.	
Veterinary Hospital, Atkinson street, 64,442 feet of land	39,110 00
7,500 feet of land on Warren avenue	18,600 00
Partially erected house for Engine 22, cost to date	24,388 22

Engine Companies.

STEAM FIRE-ENGINES. — Forty-three in service, located as follows: Twelve in city proper, four in East Boston, six in South Boston, five in Roxbury District, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton. FIRE-BOAT. — One, located India Wharf.

HORSE HOSE-WAGONS. — Forty-three, located as follows, viz.: Twelve in city proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury and three in Brighton.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
1	Dorchester, near Fourth, S. B.,	Clapp & Jones Mfg. Co.,	April 1, 1890	8 $\frac{1}{8}$	5	7	Third
2	Fourth, cor. O., South Boston.	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{4}$	4	8	"
3	Harrison ave., cor. Bristol st. .	Clapp & Jones Mfg. Co.,	Aug. 22, 1890	9	5 $\frac{1}{2}$	8	First
4	Bulfinch st.	American Fire Eng. Co.,	Feb. 22, 1893	9	5 $\frac{1}{2}$	8	"
5	Marion st., East Boston	Amoskeag Mfg. Co.	Nov., 1897	7 $\frac{5}{8}$	4 $\frac{3}{4}$	8	Second
6	Leverett st.	Formerly Relief B., re-built by Manchester Loco. Works.	Nov., 1900	7 $\frac{5}{8}$	4 $\frac{3}{4}$	8	First
7	East st.	American Fire Eng. Co.,	June, 1895	9	5 $\frac{1}{2}$	8	"
8	Salent st.	Manchester Loco. Works,	March 30, 1896	6 $\frac{7}{8}$	4 $\frac{1}{4}$	8	Second
9	Paris st., East Boston.	Hunnehan & Co.	Oct. 14, 1872	7 $\frac{1}{2}$	4 $\frac{1}{4}$	8	"
10	Mount Vernon, cor. River st. .	Manchester Loco. Works,	March 1, 1882	6 $\frac{7}{8}$	4 $\frac{1}{4}$	8	"
11	Saratoga, cor. Byron st., E. B.,	Amoskeag Mfg. Co.	April 9, 1873	6 $\frac{7}{8}$	4 $\frac{1}{4}$	8	"
12	Dudley st.	Manchester Loco. Works,	March 27, 1882	6 $\frac{7}{8}$	4 $\frac{1}{4}$	8	"
13	Cabot st.	Clapp & Jones Mfg. Co.,	April 1, 1890	8 $\frac{1}{2}$	5	7	"
14	Centre st.	Amoskeag Mfg. Co.	Sept. 17, 1870	7 $\frac{5}{8}$	4 $\frac{3}{4}$	8	"
15	Dorchester ave. and Broadway,	American Fire Eng. Co.,	Feb., 1893	9	5 $\frac{1}{2}$	8	First
16	Temple st., Dorchester	Silsby Mfg. Co.	April 8, 1890	.....	Rotary.	8	Second
17	Meeting House Hill, Dorchester,	Amoskeag Mfg. Co.	May, 1886	6 $\frac{7}{8}$	4 $\frac{1}{4}$	8	"

18	Harvard st., Dorchester.....	Manchester Loco. Works, Nov., 1890	6½	4	8	Third
19	Norfolk st., Dorchester.....	Clapp & Jones Mfg. Co., Dec., 1891	7	4½	7	"
20	Walnut st., Dorchester.....	Manchester Loco. Works, Nov., 1890	6½	4	8	"
21	Columbia road, Dorchester....	Clapp & Jones Mfg. Co., Dec., 1893	7	4½	7	"
22	Bristol st.	Rebuilt by American Fire Eng. Co.				
23	Northampton st.	Silsby Mfg. Co.	8	4½	8	Second
24	Warren, cor. Quincy st.	Sept., 1890	.....		Rotary.	"
25	Fort Hill sq.	Clapp & Jones Mfg. Co., Feb., 1888	7	4½	7	Third
26	Mason st.	Manchester Loco. Works, Nov., 1896	7½	4½	8	First
27	Elm st., Charlestown.....	La France Fire Eng. Co., June, 1895	8½	5½	9	Extra first size.
28	Centre st., Jamaica Plain.....	Anoskeag Mfg. Co.	7½	4½	8	Second size.
29	Chestnut Hill ave., Brighton..	Silsby Mfg. Co. ....	.....	Rotary.	"	"
30	Centre st., West Roxbury.....	Hummel & Co.	7½	4½	8	"
31	Central Wharf (spare Fire-boat),	Clapp & Jones Mfg. Co., Oct., 1891	7	4½	7	Third
32	Bunker Hill st., Charlestown..	Clapp & Jones Mfg. Co., July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
33	Boylston st.	Manchester Loco. Works, March 28, 1884	6½	4½	8	Second size.
34	Western ave., Brighton	Silsby Mfg. Co. ....	.....	Rotary.	"	"
35	Mason st.	Anoskeag Mfg. Co.	7½	4½	8	"
36	Monument st., Charlestown....	Manchester Loco. Works, Jan., 1898	9½	5½	8	Double extra first size.
37	Longwood ave.	Dec., 1890	6½	4	8	Third size.
38	Congress st., South Boston....	Manchester Loco. Works, March, 1896	6½	4½	8	Second "
39	Congress st., South Boston....	Self-propeller.....	9½	5½	8	Double extra first size.
40	Summer st., East Boston	Clapp & Jones Mfg. Co., April 1, 1890	9	5½	8	First size.
41	Harvard ave., Brighton.....	Silsby Mfg. Co. ....	.....		Rotary.	"
42	Egleston sq., West Roxbury....	Clapp & Jones Mfg. Co., Feb., 1893	7	4½	7	Third "
43	Andrew sq., South Boston.....	American Fire Eng. Co., Feb., 1893	.....	Rotary.	"	"
44	India Wharf (Fire-boat).....	Clapp & Jones Mfg. Co., March 3, 1893	7	4½	7	"
45	Washington, cor. Poplar st., Roslindale.....	American Fire Eng. Co., Aug., 1895	12½ H. P. 18 L. P.	10		2 sets of pumps 6,520 gallons.*
		Jan., 1895	7	4½	7	Third size.

* At 225 revolutions per minute.

In Reserve.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
A	Old 8.....	Freeman & Jucket.....	April 26, 1869	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.
B	Old 6.....	Silsby Mfg. Co.	April, 1890	.....	Rotary.		" "
C	.....	Manchester Loco. Works,	Dec., 1879	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
D	Old 17 (Crane neck).....	Manchester Loco. Works,	May, 1886	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	" "
E	Old 4 (Straight frame).....	Amoskeag Mfg. Co.	Nov., 1867	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
F	Old 1.....	Amoskeag Mfg. Co.	Sept., 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
G	Old 25.....	Clapp & Jones Mfg. Co.,	Nov., 1890	9	5 $\frac{1}{2}$	8	First "
H	Old 37.....	Manchester Loco. works,	July, 1867	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	Second "
I	Old 35.....	Clapp & Jones Mfg. Co.,	Aug., 1890	9	5 $\frac{1}{2}$	8	First "

Also five hose wagons.

FIRE DEPARTMENT.

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Chemical Companies.

CHEMICAL ENGINES. — Eleven in service, self-acting, located as follows: Three in the City proper, one in East Boston, one in Charlestown, one in South Boston, three in Roxbury, one in West Roxbury and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Capacity.
1.....	Bulfinch st.....	Babcock Manufacturing Co.....	Oct., 1890	<i>Gals.</i> 100
2.....	Church st.....	".....	April 25, 1874	160
3.....	Longwood ave.....	".....	July 27, 1874	100
4.....	Shawmut ave.....	Rebuilt by Hinman in 1886.....	Used as a spare engine and put in service Dec. 20, 1895	100
5.....	Washington, between Atherton and Beethoven sts.....	Altered by Hinman.....	Sept. 21, 1876	170
6.....	Harvard ave., near Cambridge st., Brighton.	".....	May 1, 1876	160
7.....	Chelsea st., East Boston.....	".....	Sept. 27, 1886	100
8.....	B st., South Boston.....	".....	Oct. 27, 1887	160
9.....	Main st., Charlestown.....	".....	July 17, 1889	100
10.....	Eustis st.....	".....	Sept. 13, 1889	100
12.....	Tremont st.....	Charles T. Holloway.....	Sept. 1896	80

In Reserve.

A.....	Old Chemical 2.....	Charles T. Holloway.....	.....	100
B.....	Old Chemical 1.....	".....	.....	100
C.....	Spare.....	Babcock Manufacturing Co. ....	.....	100

Ladder Companies.

LADDER TRUCKS. — Seventeen in service, including four extension ladder trucks, located as follows, viz.: Seven in City proper, one in East Boston two in Roxbury, one in South Boston, two in Dorchester, one in Charlestown, two in West Roxbury and one in Brighton.

Number.	Location.	Builders.	Put in service.	Number of Ladders.
1.....	Warren sq.....	Hunnehan & Co.....	Dec. 20, 1869	12
2.....	Paris st., East Boston.....	Rebuilt by T. Strangman & Son.....	1899	12
3.....	Harrison ave., cor. Bristol st.....	Abbot-Downing Co.....	June 2, 1886	14
4.....	Dudley st., Roxbury.....	".....	April 25, 1884	15
5.....	Fourth st., near Dorchester.....	Hunnehan & Co.....	March 3, 1870	17
6.....	Temple st., Dorchester.....	".....	Aug. 18, 1873	17
7.....	Meeting House Hill.....	".....	July 28, 1898	10
8.....	Fort Hill sq.....	C. T. Holloway & Co.....	Aug. 23, 1898	12
9.....	Main st., Charlestown.....	Five Department Repair-shop.....	Oct. 6, 1872	15
10.....	Centre st., Jamaica Plain.....	Leverich & Co., N.Y.....	Dec. 21, 1870	12
11.....	Chestnut Hill ave., Brighton.....	Hunnehan & Co.....	April 13, 1872	14
12.....	Tremont st., Roxbury.....	".....	July 31, 1880	15
13.....	Washington st., near Dover.....	Ryan Bros.....	March 12, 1890	Hayes Extension
14.....	Fort Hill sq.....	La France Fire-Engine Co., Elmira, N.Y.....	Jan. 30, 1893	Extension
15.....	Boylston st.....	".....	April 28, 1888	Extension
16.....	Washington, cor. Poplar st., Roslin- dale.....	Repair-shop.....	Sept., 1888	15
17.....	Harrison ave.....	Preston Co., Chicago.....	April 29, 1891	Extension 87 feet

Ladder Trucks. — In Reserve.

Description.	Builders.
Relief B, old 8.....	Fire Department Repair-shop.
Old Ladder 11.....	Hunnehan & Co. Rebuilt as Combination in 1900.
" " 4.....	La France Fire-Engine Co., Elmira, N. Y.
" " 8.....	Abbott & Downing.
	Extension

Combination Companies.

COMBINATION TRUCKS. — Six in service, located as follows: One in City proper, one in East Boston, one in South Boston, one in Charlestown, one in Dorchester, and one in West Roxbury.

COMBINATION WAGONS. — Three in service, located as follows: One in Dorchester, one in South Boston, and one in Charlestown.

Number.	Location.	Built by		Put in Service.	Capacity.
1.....	Dorchester ave., Ashmont....	Charles T. Holloway.....	Chemical and Hose....	March, 1892	70
2.....	Fourth st., South Boston....	" ".....	" " " " " "	May, 1893	70
3.....	Andrew sq., South Boston....	Fire Extinguisher Mfg. Co.	" " Ladder.	Jan., 1898	70
4.....	Saratoga, cor. Byron st., E. B.	Charles T. Holloway.....	" " " " " "	Jan., 1898	70
5.....	Monument st., Charlestown..	" ".....	" " " " " "	Jan., 1898	70
6.....	Washington st., Dorchester..	Fire Extinguisher Mfg. Co.	" " " " " "	Nov. 8, 1898	70
7.....	Winthrop st., Charlestown....	" ".....	" " Hose ..	April 29, 1898	70
8.....	North Grove st., Charlestown..	" ".....	" " Ladder.	Nov. 1, 1899	70
9.....	Centre st., West Roxbury....	Charles T. Holloway & Co.	" " " " " "	April 25, 1900	70

Gals.

Water-towers.

WATER-TOWERS. — Two, located in city proper.

Number.	Location.	Builders.	Put in Service.
1.....	Bulfinch st.....	Kansas City Fire Department Supply Co.....	May 17, 1890
2.....	Bristol st.....	" " " "	Dec. 18, 1893

PORTABLE EXTINGUISHERS. — Carried on all of the ladder trucks and hose-wagons and located in the Department houses.

FUEL-WAGONS. — Thirty-nine, each capable of conveying about two tons.

WAGONS. — Seventeen for chief of Department and district chiefs (fourteen in service and three in reserve) and one buggy.

PUMPS. — Forty-eight ; forty-three for carrying hose, two for jobbing and three for Fire-alarm branch. District chiefs' sleighs, seven.

SPARE APPARATUS. — Nine steam fire-engines, four ladder trucks three chemical engines, one hose-pump, one salt-pung, five hose-wagons and one fire-boat.

REPAIR-SHOP. — In the repair-shop, one 25-horse-power steam-engine, cylinder, 9 by 31 inches, Putnam Machine Company; one 26-inch by 26-inch iron planer, 8-ft. table, 12-ft. bed; two 14-inch swing engine lathes, 6-ft. bed; one 14-inch swing engine lathe, 10-ft. bed; one No. 2 upright drill ; four blacksmith's forges ; one furnace for heating tires ; one 28-inch swing standard engine lathe ; one 14-inch speed lathe, 5-ft. bed ; one 14-inch swing patent engine lathe, 5-ft. bed ; one 25-inch shaping machine, one 68-inch radial drill, one duplex and one Blake pump for feeding boilers, one Knowles triplex pump for testing hose, one patent goose-neck belt drill, one band saw, one circular saw, one monarch boring machine, together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

Three upright tubular boilers, 100-horse power.

Two dynamos for lighting and fire-alarm, one tire upsetter in the blacksmith shop, one No. 2 Blake pump in the hose and harness-shop for testing hose.

NEW APPARATUS PURCHASED DURING THE YEAR.

- 2 pairs 35-gallon chemical tanks for ladder-trucks.
- 1 large-sized hose-wagon.
- 1 combination ladder and chemical engine.

Amount of hose purchased and condemned during the year :

	Purchased.	Condemned.
Leading cotton,	16,000 feet.	6,500 feet.
“ rubber,		1,350 “
Chemical,	1,000 “	450 “
Suction,	205 “	56 “
Totals,	17,205 “	8,356 “

Amount of hose in use and in store February 1, 1901.

	In use.	In store.
Leading cotton,	80,650 feet.	14,850 feet.
“ rubber,	7,300 “	1,750 “
Chemical,	9,550 “	1,150 “
Suction,	946 “	201 “
Totals,	98,446 “	17,951 “

HORSES.

Purchased during the year	48
Sold or exchanged	30
Died	8
Killed for cause	7
Number in the Department	358

MONTHS. 1900-1901.	ALARMS RECEIVED.						LOSS.		INSURANCE.		ALARMS.			BUILDINGS.				Fires not in buildings.											
	From Whom.						Buildings.	Contents.	Buildings.	Contents.	Telegraph.			Still.	Confined to buildings.	Extended to others.	Needless still alarms.		BUILDINGS.										
	Members.	Police.	Citizens.	Automatic.	Unknown.	Accidental.					Total.	Fire.	False.						Needless.	Slight damage.	Considerable damage.	Totally destroyed.	Out of city.						
1900.																													
February.....	8	12	139	9	1	....	169	\$41,402	\$75,645	\$615,673	\$675,500	88	2	14	65	128	4	11	47	75	14	2	1					9
March.....	6	18	145	3	1	....	173	67,740	133,066	1,432,746	1,242,950	78	2	11	82	131	4	11	45	83	14	1	1					13
April.....	8	20	160	6	....	....	194	23,792	13,840	1,142,914	127,050	100	....	7	87	130	....	15	49	70	8	3	2					40
May.....	8	8	134	12	2	....	164	41,168	118,128	1,242,308	646,550	81	5	2	76	115	3	15	45	71	7	....	3					21
June.....	10	23	222	13	....	....	278	25,445	42,121	1,245,300	335,033	116	2	12	148	176	7	23	65	115	10	4	1					57
July.....	16	44	244	14	4	....	322	81,599	327,212	841,900	430,800	128	6	8	180	165	5	25	77	82	13	6	3					110
August.....	4	9	144	10	....	1	168	42,837	82,488	888,364	284,975	78	2	4	84	113	2	19	46	59	11	2	....					28
September.....	6	17	137	6	3	....	169	41,547	48,323	640,219	345,875	85	3	8	73	101	5	9	44	58	7	7	....					43
October.....	3	18	123	10	....	....	154	14,555	50,181	1,337,850	448,700	74	4	8	68	104	2	21	37	66	4	1	2					13
November.....	7	22	128	9	....	....	166	19,755	30,845	528,969	226,275	88	....	4	74	120	3	14	39	84	4	2	1					24
December.....	15	19	180	16	3	...	233	64,689	206,533	1,526,450	1,631,750	117	4	6	106	175	3	22	58	111	14	....	1					22
1901.																													
January.....	3	18	191	7	2	....	221	51,142	58,164	994,739	499,006	114	3	4	100	183	2	14	64	106	17	1	2					13
Totals.....	94	238	1,947	115	16	1	2,411	\$515,671	\$1,186,546	\$12,437,432	\$6,354,524	1,147	33	88	1,143	1,641	40	199	616	980	123	29	17					393	

CAUSES OF FIRES AND ALARMS FROM FEBRUARY 1, 1900,
TO FEBRUARY 1, 1901.

Alarms, accidental automatic	98
“ false	33
“ out-of-city	17
Accidental breaking of box	1
Ashes, hot, in wooden receptacle	32
Boiling over of fat or tar	31
Bonfires, grass, rubbish, etc., set by boys	232
Careless use of lamps, candles, etc.	58
“ “ “ pipes and cigars in smoking	52
Chimneys, soot burning	86
“ defective	30
“ falling	1
Hot iron igniting woodwork	5
Clothes too near stove	19
Defective flue	11
“ stove-pipe	5
“ gas-pipe	3
“ gas-meter	1
“ gas-jet	6
Electric motor igniting car	11
“ wires	51
Explosion and ignition of chemicals	4
Fireworks	47
Friction	6
Fumigating	2
Gas, explosion of	5
“ ignition of leaky pipes	7
“ jet setting fire	56
Incendiary	35
“ supposed	18
Lamp explosion	58
“ upsetting and breaking	68
“ thrown at a person	3
Light mistaken for fire	22
Lightning	2
Matches and rats	23
“ “ children	88
“ careless use of	133
Meat burning on stove	8
Naphtha, careless use of, and ignition	15
Explosion of tank	1
“ “ boiler	1
“ “ gunpowder	1

Explosion of can of milk	1
“ “ hot water heater	1
Oil stove, careless use of, and explosion	76
Gas stove, “ “ “ “ “	18
Plastering, drying	6
Overheated boiler or steam-pipe	22
“ coke	1
“ oven	5
“ stove or furnace	43
Rekindling of ruins of previous fire	4
Plumber's stove upsetting	5
Slacking of lime	3
Smoky chimneys	35
“ stove or furnace	64
Sparks from another fire	13
“ “ furnace or stove	14
“ “ chimney	37
“ “ forge	11
“ “ engine or locomotive	34
Spontaneous combustion	51
Steam escaping	11
Street fight	2
“Police,” mistaken for call of “fire”	3
Thawing out beer-pipes	1
Unknown	531
Upsetting of stove	3
Water-pipes, thawing out	28
Wood drying in oven	2
Total	<u>2,411</u>

Extinguished by

Extinguishers	390
Buckets of water	251
Chemical engines	453
Hydrant stream	208
Steamers	375
Miscellaneous, brooms, stamping out and smothering,	108
Citizens	287
Sprinklers	2

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells :

Adams School-house, Summer street, East Boston, steel, - 2,995 lbs., owned by City.

Bunker Hill School-house, Charlestown, composition, 2,009 lbs., owned by City.

City Hall, Charlestown, composition, 3,600 lbs., owned by City.

Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by City.

Engine-house No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs., owned by City.

Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by City.

Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by City.

Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by City.

Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by City.

Engine-house, Mt. Vernon street, West Roxbury, steel, 1,000 lbs., owned by City.

Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by City.

Engine-house No. 41, Allston, composition, 900 lbs., owned by City.

Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by City.

Lewis School-house, Dale street, Roxbury, composition, 3,104 lbs., owned by City.

Maverick-street Church, East Boston, composition, 2,000 lbs.

Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by City.

Saratoga street M. E. Church, East Boston, steel, 1,968 lbs., owned by City.

Warren School-house, Charlestown, composition, 3,000 lbs., owned by City.

Winthrop School-house, Charlestown, composition, 3,000 lbs., owned by City.

Bells owned by the City, which have been disconnected from service, are located as follows :

Berkeley Temple, composition, 2,941 lbs. Formerly used on Quincy School-house.

Chapman School-house, steel, 3,109½ lbs., taken down and stored by Public Buildings Department.

Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.

Engine-house No. 2, composition, 800 lbs.

Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs.

Engine-house No. 21, Columbia road, Dorchester, composition, 3,026 lbs.

Faneuil Hall, steel, 5,816 lbs.

Fire Alarm Shop, bell formerly used on house of Engine No. 40, composition, 817 lbs.

Ladder House No. 4, Dudley street, Roxbury, composition, 3,509 lbs.

Lawrence School-house, B street, South Boston, steel, 3,400 lbs.

Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.

Smith-street School-house, Roxbury, composition, 4,083 lbs.

Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.

Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.

Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.

Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-eight in number, are taken care of by the Fire Department :

City Proper.

Arlington-street Church.

Charles-street Church.

Christ Church, Salem street, owned by City.

Commercial Wharf.

Odd Fellows' Hall, Tremont street, owned by City.

Old South Church, owned by City.

Old State House, owned by City.

Park-street Church.

Suffolk County Jail, owned by City.
St. Stephen's Church, Clark street, owned by City.
Shawmut-avenue Church.
Tremont M. E. Church, owned by City.
Young Men's Christian Union, owned by City.

South Boston.

Gaston School-house, owned by City.
Lincoln School-house, owned by City.
Phillips Church, owned by City.
St. Augustine Church, Dorchester street, owned by City.
Ticknor School-house, Washington Village, owned by City.

East Boston.

Central-square Church.
London-street Church, owned by City.
Lyceum Hall, owned by City.
Trinity Church, owned by City.
Orient Heights Church, owned by City.

Roxbury.

Winthrop-street Church, owned by City.
West End stables, Tremont street, owned by City.

Dorchester.

Baker Memorial (Upham's Corner), owned by City.
Neponset Church.
Tileston School (Mattapan), owned by City.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by City.
Harvard Hill Church.
High School-house, owned by City.
Unitarian Church.

West Roxbury.

Dr. Strong's Church.
Unitarian Church.
Congregational Church (Roslindale), owned by City.

Brighton.

Bennett School-house, owned by City.

The following Fire-alarm boxes are private property: 113, 115, 119, 149, 152, 161, 163, 164, 165, 212, 227, 228, 244, 271, 279, 281, 283, 299, 342, 358, 422, 442, 443, 445, 446, 447, 448, 449, 466, 469, 495, 511, 533, 617, 619, 623, 624, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 726, 727, 728, 729, 731, 732, 733, 734, 735, 737, 738, 739, 741, 742, 744, 745, 746, 755, 758, 759, 762, 766, 767, 769, 773, 778, 779, 789, 791, 792, 793, 794, 795, 797, 799, 816, 828, 838, 842, 864, 865, 919, 927, 967, 969, 971, 974.

Pray accept for yourself my full appreciation of the uniform support with which you have favored me.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.

ANNUAL REPORT
OF THE
FIRE DEPARTMENT
FOR THE
YEAR 1901-1902



BOSTON
MUNICIPAL PRINTING OFFICE
1902

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ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

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BOSTON

MUNICIPAL PRINTING OFFICE

1902

Toronto - Fire Department.

Dec. 12, 1903.

1902.

FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 26, 1902.

HIS HONOR PATRICK A. COLLINS, *Mayor* :

SIR, — By good fortune, constant vigilance and powerful apparatus we have been able to pass through the year without a conflagration, in spite of the many old fire traps scattered throughout the city, to say nothing of the new buildings, of faulty construction, which our present laws allow to be erected within the city limits. As long as real estate owners pursue the narrow policy of opposing all laws which look to the preservation of life and property, the Fire Department will be handicapped in its duty. The department has done satisfactory work during the year, and I see no reason to change my opinion that, by strengthening the companies already established, we have attained an efficiency which can provide all reasonable protection to the different sections of the city, without taxing our fellow-citizens for new houses, apparatus and men, not necessary for a satisfactory performance of our duty.

Our Roll of Merit contains the names of :

Nathan L. Hussey	Engine 23.
Edward H. Sawyer	Ladder 4.
Edward H. Sawyer	“ 4.

James F. Bailey	Ladder 17.
Eugene Rogers	" 1.
Peter Callahan	Engine 4.
Joseph A. Kelley	Chemical 1.
Timothy J. Heffron	Engine 4.
James E. Downey	" 6.
Frederick F. Leary	Ladder 12.
Florence Donoghue	Combination 8.
James J. O'Connor	Engine 7.
James F. McMahon	Combination 8.
Martin A. Kenealy	Engine 7.
Denis Driscoll	" 7.
William H. Magner	Ladder 8.
Thomas J. Muldoon	Chemical 8.
Dennis McGee	Combination 5.
Joseph P. Hanton	Ladder 17.
Michael J. Teehan	" 17.

All of whom have distinguished themselves by exceptionally good work on occasion; but the success in putting out fires, which the department has attained, has been owing to the perpetual vigilance and uniform zeal of all the officers and men without distinction.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL; term expires May, 1904.

Secretary, BENJAMIN F. UNDERHILL.

Chief of Department, WILLIAM T. CHESWELL.

Assistant Chief, JOHN A. MULLEN.

Second Assistant Chief and Chief of District No. 5, NATHAN L. HUSSEY.

Superintendent of Fire-alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire-alarms, CYRUS A. GEORGE.

Superintendent of Repair-shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair-shop, EUGENE M. BYINGTON.

Hydraulic Engineer, GREELY S. CURTIS.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. WILLIAMS (detailed).

Foreman of Hose and Harness-shop, PATRICK B. HANNON.

Consulting Electrician, HENRY F. COTTLE (absent).

Master Carpenter, THOMAS C. HANEY.

Clerks.

George F. Murphy, Daniel J. Quinn, Michael J. Lafferty,
James P. Maloney.

District Chiefs.

Patrick E. Keyes,	Headquarters,	Ladder-house	2
C. H. W. Pope,	"	"	9
Joseph M. Garrity,	"	"	8
Peter F. McDonough,	"	Engine-house	4
Edwin A. Perkins,	"	"	1
John Grady,	"	"	22
Hiram D. Smith,	"	Ladder-house	12
Edward H. Sawyer,	"	"	4
Williston A. Gaylord,	"	Engine-house	18
John F. Ryan,	"	"	41
Lewis P. Abbott,	"	"	28

FORCE AND PAY-ROLL, FEBRUARY 1, 1902.

Commissioner	\$5,000 per annum.
Secretary	2,500 " "
Chief of Department	3,500 " "
Assistant Chief	2,400 " "
Second Assistant Chief	2,200 " "
Superintendent of Fire-alarms	3,200 " "
Assistant Superintendent of Fire-alarms,	2,000 " "
Superintendent of Repair-shop	2,000 " "
Assistant Superintendent of Repair-shop,	1,800 " "
Hydraulic Engineer	1,600 " "
Veterinary Surgeon	2,000 " "
Medical Examiner	900 " "
Purchasing Officer	1,600 " "
Foreman of Hose and Harness Shop	1,400 " "
Storekeeper	1,200 " "
Master Carpenter	1,300 " "
Bookkeeper	1,650 " "
3 Clerks	1,400 " "
11 District Chiefs	2,000 " "
52 Captains	1,600 " "
68 Lieutenants	1,400 " "

46 Engineers	\$1,300	per annum.
41 Assistant Engineers	1,200	" "
1 Assistant Engineer	1,100	" "
1 " "	1,000	" "
1 " "	900	" "
476 Permanent men.		
366 at	1,200	" "
26 at	1,100	" "
32 at	1,000	" "
27 at	900	" "
25 at	720	" "
83 Call-men.		
1 at	325	" "
14 at	250	" "
68 at	200	" "
12 Chiefs' Drivers	1 75	per day.
1 " "	2 25	" "
2 Watchmen	1,000	per annum.
3 Hostlers (average)	1 95	per day.
1 Horseshoer	3 00	" "

FIRE-ALARM FORCE.

6 Operators	\$1,600	per annum.
3 Assistant Operators	1,200	" "
1 Foreman of Construction	1,800	" "
17 Repairers (average)	2 94	per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300	per annum.
1 Engineer	3 00	per day.
1 Assistant Engineer	2 50	" "
1 Painter	3 75	" "
1 "	2 50	" "
2 Wheelwrights	3 25	" "
4 Machinists	3 25	" "
1 Machinist	3 00	" "
1 "	2 75	" "
2 Blacksmiths	3 50	" "
1 Blacksmith	3 25	" "
3 Blacksmiths' helpers	2 50	" "
1 Hose and harness-repairer	1 50	" "
4 Laborers (average)	2 05	" "

870 total force.

FIRE DEPARTMENT.

5

FORCE AND PAY-ROLL, FEBRUARY 1, 1901.

Commissioner	\$5,000	per annum.
Secretary	2,500	" "
Chief of Department	3,500	" "
Assistant Chief	2,400	" "
Second Assistant Chief	2,200	" "
Superintendent of Fire-alarms	3,200	" "
Assistant Superintendent of Fire-alarms,	2,000	" "
Superintendent of Repair-shop	2,000	" "
Assistant Superintendent of Repair-shop,	1,800	" "
Hydraulic Engineer	1,600	" "
Veterinary Surgeon	2,000	" "
Medical Examiner	900	" "
Purchasing Officer	1,600	" "
Foreman of Hose and Harness Shop	1,400	" "
Storekeeper	1,400	" "
Master Carpenter	1,300	" "
Bookkeeper	1,650	" "
3 Clerks	1,400	" "
1 Clerk	1,100	" "
11 District Chiefs	2,000	" "
53 Captains	1,600	" "
66 Lieutenants	1,400	" "
47 Engineers	1,300	" "
40 Assistant Engineers	1,200	" "
4 " "	1,100	" "
470 Permanent men.		
356 at	1,200	" "
37 at	1,100	" "
30 at	1,000	" "
27 at	900	" "
20 at	720	" "
83 Call-men.		
1 at	325	" "
14 at	250	" "
68 at	200	" "
11 Chiefs' Drivers	1 75	per day.
2 Watchmen	1,000	per annum.
3 Hostlers (average)	1 95	per day.
1 Horseshoer	3 00	" "

FIRE-ALARM FORCE.

6 Operators	\$1,600	per annum.
3 Assistant Operators	1,200	" "
1 Foreman of Construction	1,800	" "
17 Repairers (average)	2 94	per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300 per annum.
1 Engineer	3 00 per day.
1 Assistant Engineer	2 50 "
1 Painter	3 75 "
1 "	2 50 "
2 Wheelwrights	3 25 "
4 Machinists	3 25 "
1 Machinist	3 00 "
2 Blacksmiths	3 50 "
1 Blacksmith	3 25 "
3 Blacksmiths' Helpers	2 50 "
1 Hose and harness-repairer	1 50 "
5 Laborers (average)	2 04 "

863 total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park, and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle, and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte, and Way streets and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock, and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica way to Castleton street, through Castleton, Catalpa,

and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart, and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows:

District.	Chief in Command.	COMPANIES IN DISTRICTS.				
		Engines.	Chemical Engines.	Ladders.	Combinations.	Water Towers.
1.....	Patrick E. Keyes. . .	5, 9, 11, 40	7	* 2	4	
2.....	C. H. W. Pope.....	27, 32, 36	9	* 9	5, 7	
3.....	Joseph M. Garrity...	8, 25, 31, 44	.....	* 8, 14	.....
4.....	Peter F. McDonough,	* 4, 6, 10	1	1	8	1
5.....	Nathan L. Hussey...	7, * 26, 35	2	17	.....
6.....	Edwin A. Perkins...	* 1, 2, 15, 38, 39, 43	8	5	2, 3	
7.....	John Grady.....	3, * 22, 33	4	3, 13, 15	.....	2
8.....	Hiram D. Smith.....	13, 14, 37	12	* 12	10	
9.....	Edward H. Sawyer..	12, 21, 23, 24	10	* 4	6	
10.....	Williston A. Gaylord,	16, 17, * 18, 19, 20	.....	6, 7	1, 11	
11.....	John F. Ryan.....	29, 34, * 41	6	11	.....
12.....	Lewis P. Abbott.....	* 28, 30, 42, 45	5	10, 16	9	

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner:

Houses.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Dorchester and Fourth sts.....	8,169	\$25,800	Engine 1 and Ladder-house 5 on this lot.
Corner of O and Fourth sts.....	4,000	16,400	Engine 2.
Bristol st. and Harrison ave.	4,000	30,000	Engine 3 and Ladder 3.
Bulfinch st.	6,098	96,000	Engine 4, Chemical 1 and Tower 1.

FIRE DEPARTMENT.

9

Houses. — *Continued.*

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Marion st., East Boston.....	1,647	9,000	Engine 5.
Leverett st.	2,269	35,000	Engine 6.
East st.....	1,893	35,400	Engine 7.
Salem st.....	2,568	20,300	Engine 8.
Paris st., East Boston	4,720	29,200	Engine 9 and Ladder 2.
River st.	1,886	20,000	Engine 10.
Saratoga and Byron sts., East Boston,	10,000	38,500	Engine 11 and Combina- tion 4.
Dudley st.....	7,320	24,900	Engine 12.
Cabot st.	4,832	16,000	Engine 13.
Centre st.....	5,713	14,600	Engine 14.
Dorchester ave.....	2,803	18,700	Engine 15.
River st., Dorchester District	12,736	19,200	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester Dis- trict	9,450	17,300	Engine 17 and Ladder- house 7 on this lot.
Harvard st., Dorchester District	9,440	18,300	Engine 18.
Norfolk st., " " 	7,683	14,200	Engine 19.
Walnut st., " " 	9,000	9,800	Engine 20 and Combina- tion 11.
Columbia road, " " 	10,341	17,100	Engine 21.
Warren ave.....	7,500	67,000	Engine 22 and Ladder 13.
Northampton st.	3,445	13,200	Engine 23.
Corner Warren and Quincy sts.....	4,186	18,100	Engine 24.
Fort Hill sq.	4,175	81,800	Engine 25, Ladder 8 and Ladder 14.
Mason st.	5,623	113,000	Engine 26 and Engine 35.
Elm st., Charlestown District	2,600	18,000	Engine 27.
Centre st., Jamaica Plain	10,377	28,300	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	37,200	Engine 29 and Ladder 11.
Centre st., West Roxbury District....	12,251	25,000	Engine 30 and Combina- tion 9.
Bunker Hill st., Charlestown District,	8,188	26,200	Engine 32.
Corner Boylston and Hereford sts. ..	5,646	66,000	Engine 33 and Ladder 15.
Western ave., Brighton.....	4,637	17,800	Engine 34.
Monument st., Charlestown District,	5,668	21,000	Engine 36 and Combina- tion 5.
Corner Longwood and Brookline aves.....	5,231	13,200	Engine 37 and Combina- tion 10.
Congress st.....	4,000	37,000	Engine 38 and Engine 39.
Sumner st., East Boston.....	4,010	18,000	Engine 40.

Houses. — Concluded.

Location.	No. of feet in lot.	Assessed Valuation.	Occupied by
Harvard ave., near Cambridge st., Brighton District.....	6,112	25,500	Engine 41 and Chemical 6.
Washington, between Atherton and Beethoven sts.....	3,848	22,900	Engine 42 and Chemical 5.
Andrew sq.	5,133	20,100	Engine 43 and Combination 3.
Washington, corner Poplar st., Roslindale.....	14,729	22,400	Engine 45 and Ladder 16.
Church st.....	3,412	23,600	Chemical Engine 2.
Shawmut ave.....	889	5,700	Chemical Engine 4.
Chelsea st., East Boston.....	1,346	10,400	Chemical Engine 7.
B st.....	1,804	7,800	Chemical Engine 8.
Eustis st.....	1,754	7,600	Chemical Engine 10.
Friend st. ...	1,676	32,400	Ladder 1.
Dudley st.....	3,923	25,900	Ladder 4.
Main st., Charlestown	4,290	18,000	Ladder 9 and Chemical 9.
Tremont st.	4,311	25,700	Ladder 12 and Chemical 12.
Harrison ave.....	2,134	25,500	Ladder 17.
Dorchester ave., Ashmont	4,875	22,900	Combination 1.
Fourth st.....	3,101	11,000	Combination 2.
Washington st., Dorchester	6,874	21,400	Combination 6.
Winthrop st.....	3,000	13,200	Combination 7.
North Grove st.....	3,918	18,000	Combination 8.

	Assessed Valuation.
Fuel-house, Dorchester street, 1,610 feet of land,	\$3,300 00
Fuel-house, Salem street, 417 feet of land	3,200 00
Fuel-house, Main street, Charlestown, 2,430 feet of land	7,800 00
Headquarters building and repair-shop, corner of Albany and Bristol streets, 23,679 feet	185,000 00
Water Tower No. 2 and Wrecking Wagon are in Headquarters building.	
Veterinary Hospital, Atkinson street, 64,442 feet of land	36,100 00
Fuel-house, Washington, near Dover street, 1,007 feet of land	13,100 00
9,300 feet of land on Saratoga street	4,200 00
Partially erected house for Chemical 7, cost to date	12,931 70
11,363 feet of land on Pittsburgh street	17,000 00
Partially erected house for Ladder 18, cost to date	13,705 40

Engine Companies.

STEAM FIRE-ENGINES. — Forty-three in service, located as follows: Twelve in City Proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

FIRE-BOAT. — One, located India Wharf.

HORSE HOSE-WAGONS. — Forty-three, located as follows: Twelve in City Proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

No.	Location.	Built by *	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size. Third First " " Second First " " Second
1	Dorchester, near Fourth, S. B.,	Clapp & Jones Mfg. Co.,	April 1, 1890	8½	5	7	Second size.
2	Fourth, cor. O, South Boston..	Manchester Loco. Works,	Nov., 1890	6½	4	8	Third
3	Harrison ave., cor. Bristol st..	Clapp & Jones Mfg Co.,	Aug. 22, 1890	9	5½	8	First
4	Bulfinch st.	American Fire Eng. Co.,	Feb. 22, 1893	9	5½	8	" "
5	Marion st., East Boston.....	Amoskeag Mfg. Co.....	Nov., 1867	7½	4½	8	Second
6	Leverett st.....	Formerly Relief B., re- built by Manchester Loco. Works	Nov., 1900	7½	4½	8	First
7	East st.....	American Fire Eng. Co.,	June, 1895	9	5½	8	" "
8	Salem st.....	Manchester Loco. Works,	March 30, 1896	6½	4½	8	Second
9	Paris st., East Boston	Formerly Silsby Engine 33, rebuilt by American Fire Eng. Co.....	Dec. 20, 1901	8	4½	8	" "
10	Mount Vernon, cor. River st....	Manchester Loco. Works,	March 1, 1882	6½	4½	8	" "
11	Saratoga, cor. Byron st., E. B.,	Amoskeag Mfg. Co.....	April 9, 1873	6½	4½	8	" "
12	Dudley st.	Manchester Loco. Works,	March 27, 1882	6½	4½	8	" "
13	Cabot st.	Clapp & Jones Mfg. Co.,	April 1, 1890	8½	5	7	" "
14	Centre st.....	Amoskeag Mfg. Co.....	Sept. 17, 1870	7½	4½	8	" "

Engine Companies. — *Continued.*

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	First size. Second " Third " " " " " " " " " Second "
15	Dorchester ave. and Broadway,	American Fire Eng. Co.,	Feb., 1893	9	5 $\frac{1}{2}$	8	First size.
16	Temple st., Dorchester.....	Silsby Mfg. Co.....	April 8, 1890	.....	Rotary.	8	Second "
17	Meeting House Hill, Dorches'r,	Amoskeag Mfg. Co.....	May, 1886	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	" "
18	Harvard st., Dorchester.....	Manchester Loco Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	Third "
19	Norfolk st., Dorchester.....	Clapp & Jones Mfg. Co.,	Dec. 5, 1891	7	4 $\frac{3}{8}$	7	" "
20	Walnut st., Dorchester.....	Manchester Loco Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	" "
21	Columbia road, Dorchester...	Clapp & Jones Mfg. Co.,	Dec. 10, 1893	7	4 $\frac{3}{8}$	7	" "
22	Warren ave.....	Rebuilt by American Fire Eng. Co.....	Jan., 1901	8	4 $\frac{3}{8}$	8	Second "
23	Northampton st.....	Formerly Silsby Engine Co., rebuilt by American Fire Eng. Co.....	July 3, 1901	8	4 $\frac{3}{8}$	8	" "
24	Warren, cor. Quincy st.....	Clapp & Jones Mfg. Co.,	Feb. 24, 1888	7	4 $\frac{3}{8}$	7	Third "
25	Fort Hill sq.	Manchester Loco Works,	Nov., 1896	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	First "
26	Mason st.	La France Fire Eng. Co.,	June, 1895	8 $\frac{1}{2}$	5 $\frac{1}{2}$	9	Extra first size.
27	Elm st., Charlestown.....	Amoskeag Mfg. Co.....	July 1, 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.
28	Centre st., Jamaica Plain....	Silsby Mfg. Co.....	April 29, 1886	.....	Rotary.	8	" "
29	Chestnut Hill ave., Brighton..	Huneman & Co.....	Jan. 1, 1874	7 $\frac{1}{2}$	4 $\frac{3}{8}$	8	" "
30	Centre st., West Roxbury.....	Clapp & Jones Mfg. Co.,	Oct. 9, 1891	7	4 $\frac{3}{8}$	7	Third "
31	Central wharf (spare Fire-boat),	Clapp & Jones Mfg. Co.,	July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown..	Manchester Loco Works,	March 28, 1884	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.
33	Boylston st.....	Manchester Loco Works,	April 16, 1901	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	" "
34	Western ave., Brighton.....	Amoskeag Mfg. Co.....	Dec., 1869	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	" "

35	Mason st.	Manchester Loco. Works, Self-propeller	Jan., 1898	9½	5½	8	Double extra first size.
36	Monument st., Charlestown...	Manchester Loco. Works,	Dec., 1890	6½	4	8	Third size.
37	Longwood ave.	Manchester Loco. Works,	March, 1896	6½	4½	8	Second "
38	Congress st., South Boston...	Manchester Loco. Works, Self-propeller	June, 1897	9½	5½	8	Double extra first size.
39	Congress st., South Boston...	Manchester Loco. Works,	June 14, 1901	8½	5	8	First size.
40	Summer st., East Boston	Silsby Mfg. Co.	Aug., 1890	.....	.....	Rotary.	" "
41	Harvard ave., Brighton	Clapp & Jones Mfg. Co.,	1893	7	4½	7	Third "
42	Egleston sq., West Roxbury...	American Fire Eng. Co.,	Feb., 1893	.....	.....	Rotary.	" "
43	Andrew sq., South Boston...	Clapp & Jones Mfg. Co.,	March 3, 1893	7	4½	7	" "
44	India wharf (Fire-boat)	American Fire Eng. Co.,	Aug., 1895	12½ H. 18 L.	P. } P.10 }	10	2 sets of pumps 6,520 gallons.*
45	Washington, corner Poplar st., Roslindale	American Fire Eng. Co.,	Jan., 1895	7	4½	7	Third size.

* At 225 revolutions per minute.

In Reserve.

A	Old 8.	Freeman & Juckett	April 26, 1869	7½	4½	8	Second size.
B	Old 39.	Clapp & Jones Mfg. Co.,	April, 1890	9	5½	8	" "
C	.....	Manchester Loco. Works,	Dec., 1879	6½	4½	8	" "
D	Old 17 (Crane neck)	Manchester Loco. Works,	May, 1886	7½	4½	8	" "
E	Old 4 (Straight frame)	Amoskeag Mfg. Co.	Nov., 1867	7½	4½	8	" "
F	Old 1.	Amoskeag Mfg. Co.	Sept., 1872	7½	4½	8	" "
G	Old 25.	Clapp & Jones Mfg. Co.,	Nov., 1890	9	5½	8	First "
H	Old 37.	Amoskeag Mfg. Co.	July, 1867	7½	4½	8	Second "
I	Old 35.	Clapp & Jones Mfg. Co.,	Aug., 1890	9	5½	8	First "

Also five hose wagons.

Chemical Companies.

CHEMICAL ENGINES. — Ten in service, self-acting, located as follows: Three in the City Proper, one in East Boston, one in Charlestown, one in South Boston, two in Roxbury, one in West Roxbury, and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Capacity.
1.....	Bulfinch st.....	Babcock Manufacturing Co.....	Oct., 1890	<i>Gals.</i> 100
2.....	Church st.....	"	April 25, 1874	160
4.....	Shawmut ave.	Rebuilt by Hinman in 1886.....	Used as a spare engine and put in service Dec. 20, 1895	100
5.....	Washington, between Atherton and Beethoven sts.....	Altered by Hinman.....	Sept. 21, 1876	170
6.....	Harvard ave., near Cambridge st., Brighton,	"	May 1, 1876	160
7.....	Chelsea st., East Boston.....	"	Sept. 27, 1886	100
8.....	13 st., South Boston.....	"	Oct. 27, 1887	160
9.....	Main st., Charlestown.....	"	July 17, 1889	100
10.....	Eustis st.....	"	Sept. 13, 1889	100
12.....	Tremont st.....	Charles T. Holloway.....	Sept. 1896	80

In Reserve.

A	Old Chemical 2.....	Charles T. Holloway.....	.....	100
B	Old Chemical 1.....	" .....	.....	100
C	Spare.....	Babcock Manufacturing Co.....	.....	100

Ladder Companies.

LADDER TRUCKS. — Seventeen in service, including four extension ladder trucks, located as follows: Seven in City Proper, one in East Boston, two in Roxbury, two in South Boston, two in Dorchester, one in Charlestown, two in West Roxbury, and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Number of Ladders.
1.....	Friend st.....	Hunnehan & Co.....	Dec. 20, 1869	12
2.....	Paris st., East Boston.....	Rebuilt by T. Strangman & Son.....	1899	12
3.....	Harrison ave., cor. Bristol st.....	Abbot-Downing Co.	June 2, 1886	14
4.....	Dudley st., Roxbury.....	" "	April 26, 1884	15
5.....	Fourth st., near Dorchester.....	Hunnehan & Co.....	March 3, 1870	17
6.....	Temple st., Dorchester	" "	Aug. 18, 1873	17
7.....	Meeting House Hill.....	C. T. Holloway & Co.....	July 28, 1898	10
8.....	Fort Hill sq.....	Fire Department Repair-shop.....	Aug. 23, 1898	12
9.....	Main st., Charlestown.....	Leverich & Co., N.Y.....	Oct. 6, 1872	15
10.....	Centre st., Jamaica Plain.....	Hunnehan & Co.....	Dec. 21, 1870	12
11.....	Chestnut Hill ave., Brighton.....	" "	April 13, 1872	14
12.....	Tremont st., Roxbury.....	Ryan Bros.....	July 31, 1880	15
13.....	Warren ave.....	La France Fire-Engine Co., Elmira, N.Y.....	March 12, 1890	Hayes Extension
14.....	Fort Hill sq.....	Fire Extinguisher Manufacturing Co., Chicago,	Jan. 30, 1893	Extension
15.....	Boylston st.....	" "	April 28, 1888	Extension
16.....	Washington, cor. Poplar st., Roslin- dale.....	Repair-shop	Sept., 1888	15
17.....	Harrison ave.....	Preston Co., Chicago.....	April 29, 1891	Extension 87 feet.

Ladder Trucks in Reserve.

Description.	Builders.
Relief B, old 8.....	Fire Department Repair-shop. Hunneman & Co. Rebuilt as Combination in 1900. La France Fire Engine Co., Elmira, N.Y. Abbott & Downing.
Old Ladder 11.....	
" " 4.....	
" " 8.....	

Extension.

Combination Companies.

COMBINATION TRUCKS. — Eight in service, located as follows: One in City Proper, one in East Boston, one in Roxbury, one in South Boston, one in Charlestown, two in Dorchester, and one in West Roxbury.

COMBINATION WAGONS. — Three in service, located as follows: One in Dorchester, one in South Boston, and one in Charlestown.

Number.	Location.	Built by	Chemical and Hose....	Put in Service.	Capacity.
1.....	Dorchester ave., Ashmont....	Charles T. Holloway.....	" " " "	March, 1892	70
2.....	Fourth st., South Boston.....	" " " "	" " " "	May, 1893	70
3.....	Andrew sq., South Boston.....	Fire Extinguisher Mfg. Co.,	" " Ladder,	Jan., 1898	70
4.....	Saratoga, cor. Byron st., E. B.,	Charles T. Holloway.....	" " " "	Jan., 1898	70
5.....	Monument st., Charlestown....	" " " "	" " " "	Jan., 1898	70
6.....	Washington st., Dorchester....	Fire Extinguisher Mfg. Co.,	" " " "	Nov. 8, 1898	70
7.....	Winthrop st., Charlestown....	" " " "	" " Hose ..	April 29, 1898	70
8.....	North Grove st.,.....	" " " "	" " Ladder,	Nov. 1, 1899	70
9.....	Centre st., West Roxbury.....	Charles T. Holloway & Co.,	" " " "	April 25, 1900	70
10.....	Longwood ave.	" " " "	" " " "	Oct., 1901	70
11.....	Walnut st., Dorchester.....	Charles N. Perkins & Co....	" " " "	Nov., 1901	70

One spare.

Water-towers.

WATER-TOWERS.—Two, Located in City Proper.

Number.	Location.	Builders.	Put in Service.
1	Bulfinch st.	Kansas City Fire Department Supply Co.	May 17, 1890
2	Bristol st.	" " " "	Dec. 18, 1893

PORTABLE EXTINGUISHERS. — Carried on all of the ladder trucks and hose-wagons and located in the department houses.

FUEL-WAGONS. — Thirty-nine, each capable of conveying about two tons.

WAGONS. — Seventeen for chief of department and district chiefs (fourteen in service and three in reserve) and one buggy.

PUMPS. — Forty-eight; forty-three for carrying hose, and three for Fire-alarm branch. District chiefs' weights, seven.

REPAIR-SHOP.—In the repair-shop, one 25-horse-power steam-engine, cylinder, 9 by 31 inches, Putnam Machine Company; one 26-inch iron planer, 8-ft. table, 12-ft. bed; two 14-inch swing engine lathes, 6-ft. bed; one 14-inch swing engine lathe, 10-ft. bed; one No. 2 upright drill; four blacksmith's forges; one furnace for heating tires; one 28-inch swing standard engine lathe; one 14-inch speed lathe, 5-ft. bed; one 14-inch swing patent engine lathe, 5-ft. bed; one 25-inch shaping machine; one 68-inch radial drill; one duplex and one Blake pump for feeding boilers; one Knowles triplex pump for testing hose; one patent goose-neck belt drill; one band-saw; one circular saw; one monarch boring machine; together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

Three upright tubular boilers, 100-horse-power.

Two dynamos for lighting and fire-alarm; one tire upsetter in the blacksmith shop; one No. 2 Blake pump in the hose and harness-shop for testing hose.

NEW APPARATUS PURCHASED DURING THE YEAR.

- 1 second-size Amoskeag engine.
- 3 district chiefs' wagons, with rubber tires.
- 1 extra first-size Amoskeag engine.
- 2 hose-wagons.
- 2 combination ladder and chemical trucks.

Amount of hose purchased and condemned during the year:

	Purchased.	Condemned.
Leading cotton,	13,000 feet.	6,350 feet.
“ rubber,	500 “	2,300 “
Chemical,	2,000 “	1,500 “
Suction,	62 “	198 “
Totals,	15,562 “	10,348 “

Amount of hose in use and in store February 1, 1902:

	In Use.	In Store.
Leading cotton,	86,300 feet.	15,700 feet.
“ rubber,	5,550 “	1,400 “
Chemical,	10,250 “	1,400 “
Suction,	905 “	106 “
Totals,	103,005 “	18,606 “

HORSES.

Purchased during the year	.	.	.	.	.	75
Sold or exchanged	.	.	.	.	.	39
Died	.	.	.	.	.	9
Killed for cause	.	.	.	.	.	8
Killed in service	.	.	.	.	.	3
Number in the department	.	.	.	.	.	374

FIRE DEPARTMENT.

19

MONTHS. 1901-1902.		ALARMS RECEIVED.					LOSS.		INSURANCE.		ALARMS.			BUILDINGS.				Out of city.	Fires not in buildings.						
		From Whom.									Telegraph.			No damage.	Slight damage.	Considerable damage.	Totally destroyed.								
		Members.	Police.	Citizens.	Automatic.	Unknown.	Total.	Buildings.	Contents.	Buildings.	Contents.	Fire.	False.							Needless.	Still.				
1901.																									
February	9	22	165	7	....	203	\$66,633	\$137,059	\$1,271,736	\$701,880	94	....	5	104	162	2	19	62	95	9	1	....	15	
March	4	15	161	5	1	186	52,892	175,778	1,195,276	790,862	99	2	9	76	136	5	17	51	87	10	....	1	16	
April	5	15	121	5	2	148	56,968	209,230	643,195	396,855	86	4	6	52	95	2	18	32	55	13	1	2	21	
May	6	20	112	5	1	144	39,656	97,425	2,505,684	519,100	80	2	5	57	102	2	10	36	58	10	1	1	22	
June	8	36	174	7	....	225	30,324	51,877	1,183,020	303,900	112	2	3	108	140	2	16	48	85	11	2	2	60	
July	6	38	238	7	8	297	152,348	76,981	1,068,455	879,346	137	9	4	147	174	4	17	79	85	17	19	1	88	
August	3	5	96	11	2	117	9,517	20,428	308,013	90,650	62	5	7	43	87	....	12	46	38	3	....	....	6	
September	6	13	123	10	2	154	17,483	46,617	419,086	203,850	74	5	8	67	104	5	14	44	63	9	3	2	16	
October	7	13	131	12	1	164	21,562	59,253	900,793	637,200	80	3	10	71	109	....	17	38	60	11	....	3	22	
November	5	14	194	10	2	225	65,806	68,841	888,925	328,212	112	3	9	101	149	7	13	64	81	14	5	3	41	
December	4	17	151	10	2	184	42,474	87,945	1,217,159	314,930	96	3	6	79	141	2	21	48	83	12	2	2	9	
1902.																									
January	16	14	134	12	2	178	62,983	180,639	1,465,150	504,790	100	2	4	72	140	2	20	38	88	18	....	....	10	
Totals	79	222	1,800	101	23	2,225	\$618,646	\$1,212,073	\$13,066,492	\$5,671,575	1,132	40	76	977	1,339	33	194	586	878	137	34	17	326	

CAUSES OF FIRES AND ALARMS FROM FEBRUARY 1, 1901,
TO FEBRUARY 1, 1902.

Alarms, accidental automatic	89
" false	40
" out of city	17
Ashes, hot, in wooden receptacle	23
Boiling over of fat or tar	37
Bonfires, grass, rubbish, etc., set by boys	194
Careless use of lamps, candles, etc.	42
" " " pipes and cigars in smoking	47
Chimneys, soot burning	76
" defective	21
Clothes too near stove	10
Defective flue	7
" stove-pipe	6
" gas-pipe	4
Electric motor igniting car	8
" wires	42
Explosion and ignition of chemicals	8
" of bottle of whiskey in oven	1
Fireworks	58
Friction	4
Fumigating	8
Gas, explosion of	3
" jet setting fire	42
" stove, careless use of, and explosion	12
Hot iron igniting woodwork	3
Incendiary	38
" supposed	15
Kerosene used to light fire	2
Lamp explosion	56
" upsetting and breaking	62
Light mistaken for fire	20
Lightning	2
Matches and rats	15
" " children	77
" careless use of	141
Meat burning on stove	8
Naphtha, careless use of, and ignition	28
Oil stove, careless use of, and explosion	72
Overheated boiler or steam-pipe	11
" stove or furnace	34
Plastering, drying	7
Plumber's stove upsetting	2
Rekindling of ruins of previous fire	2

FIRE DEPARTMENT.

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Slacking of lime	2
Smoky chimneys	47
“ stove or furnace	73
Sparks from another fire	4
“ “ chimney	44
“ “ engine or locomotive	29
“ “ forge	8
“ “ furnace or stove	11
“ “ open grate	3
“ “ trolley wire	1
Spontaneous combustion	44
Steam escaping	10
Street fight	1
Unknown	526
Water-pipes, thawing out	24
Wood drying in oven	4
Total	<u>2,225</u>

Extinguished by

Extinguishers	403
Buckets of water	244
Chemical engines	399
Hydrant stream	172
Steamers	340
Miscellaneous, brooms, stamping out and smothering,	88
Citizens	248
Sprinklers	4

The following is a memorandum of construction, extension and renewal work done for the maintenance and operation of the Fire-alarm branch of the department for the year:

Overhead wire run	182,160	feet.
“ “ taken down	204,600	“
“ cable put up	18,521	“
Conductors in same	125,545	“
Overhead cable taken down	11,547	“
Conductors in same	80,579	“
Underground cable laid in N. E. tele- phone ducts	15,317.7	“
Underground ducts put in by this de- partment	3,599.8	“
Total ducts owned by city	13,280.8	“
Total underground cable laid	28,650	“
Conductors in same	521,920	“

Total cable under ground February 1, 1902	174,170.5 feet.
Conductors in same	4,734,843.9 "
Service connections made	23
Boxes built over	115
New boxes added to service, including 3 auxiliary,	6
Boxes equipped with keyless doors	92
Boxes placed on lamp-posts and connected under ground	9
Lamp-post boxes used in resetting broken posts	4
Boxes in service February 1, 1902	632
Cross-arms used	402
Poles transferred to N. E. Telephone Company	459
Bell-alarms struck from January 1, 1901, to January 1, 1902	1,349
Blows struck on bells, gongs and tappers	9,244,766

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells:

- Adams school-house, Sumner street, East Boston, steel, 2,995 lbs., owned by City.
- Bunker Hill School-house, Charlestown, composition, 2,009 lbs., owned by City.
- City Hall, Charlestown, composition, 3,600 lbs., owned by City.
- Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by City.
- Engine-house No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs., owned by City.
- Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by City.
- Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by City.
- Engine-house No. 28, West Roxbury, composition, 4,000 lbs., owned by City.
- Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by City.
- Engine-house, Mt. Vernon street, West Roxbury, steel, 1,000 lbs., owned by City.
- Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by City.
- Engine-house No. 41, Allston, composition, 900 lbs., owned by City.
- Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by City.

Lewis School-house, Dale street, Roxbury, composition, 3,104 lbs., owned by City.
Maverick-street Church, East Boston, composition, 2,000 lbs.
Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by City.
Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by City.
Warren School-house, Charlestown, composition, 3,000 lbs., owned by City.

Bells owned by the City, which have been disconnected from service, are located as follows :

Berkeley Temple, composition, 2,941 lbs. Formerly used on Quincy School-house.
Chapman School-house, steel, 3,109½ lbs., taken down and stored by Public Buildings Department.
Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.
Engine-house No. 2, composition, 800 lbs.
Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs.
Engine-house No. 21, Columbia road, Dorchester, composition, 3,026 lbs.
Faneuil Hall, steel, 5,816 lbs.
Ladder House No. 4, Dudley street, Roxbury, composition, 3,509 lbs.
Lawrence School-house, B street, South Boston, steel, 3,400 lbs.
Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.
Smith-street School-house, Roxbury, composition, 4,083 lbs.
Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.
Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.
Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.
Wells School-house, Blossom street, composition, 1,675 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-eight in number, are taken care of by the Fire Department:

City Proper.

Arlington-street Church.
Charles-street Church.

Christ Church, Salem street, owned by City.
Commercial Wharf.
Odd Fellows' Hall, Tremont street, owned by City.
Old South Church, owned by City.
Old State House, owned by City.
Park-street Church.
Suffolk County Jail, owned by City.
St. Stephen's Church, Clark street, owned by City.
Shawmut-avenue Church.
Tremont M. E. Church, owned by City.
Young Men's Christian Union, owned by City.

South Boston.

Gaston School-house, owned by City.
Lincoln School-house, owned by City.
Phillips Church, owned by City.
St. Augustine Church, Dorchester street, owned by City.
Ticknor School-house, Washington Village, owned by City.

East Boston.

Central-square Church.
London-street Church, owned by City.
Lyceum Hall, owned by City.
Trinity Church, owned by City.
Orient Heights Church, owned by City.

Roxbury.

Winthrop-street Church, owned by City.
West End stables, Tremont street, owned by City.

Dorchester.

Baker Memorial (Upham's Corner), owned by City.
Neponset Church.
Tileston school (Mattapan), owned by City.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
City Hall, owned by City.
Harvard Hill Church.
High School-house, owned by City.
Unitarian Church.

West Roxbury.

Dr. Strong's Church (South Evangelical), owned by City.
Unitarian Church.

Congregational Church (Roslindale), owned by City.

Brighton.

Bennett School-house, owned by City.

The following Fire-alarm boxes are private property : 113, 115, 117, 119, 149, 152, 161, 163, 164, 212, 227, 228, 244, 271, 279, 281, 283, 299, 342, 422, 442, 443, 445, 446, 447, 448, 449, 466, 495, 511, 533, 617, 619, 623, 624, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 727, 728, 729, 731, 732, 733, 734, 735, 737, 739, 741, 742, 744, 745, 746, 755, 758, 759, 762, 766, 767, 773, 778, 779, 789, 791, 792, 793, 794, 795, 797, 799, 816, 828, 838, 842, 864, 865, 919, 927, 967, 969, 971, 974.

Your obedient servant,

HENRY S. RUSSELL,

Commissioner.

30 ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE

YEAR 1902-1903



BOSTON
MUNICIPAL PRINTING OFFICE
1903

30

ANNUAL REPORT

OF THE

FIRE DEPARTMENT

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BOSTON

MUNICIPAL PRINTING OFFICE

1903

Boston Fire Department

Dec 12, 1903.

1913

FIRE COMMISSIONER,
BRISTOL STREET, BOSTON, February 17, 1903.

HIS HONOR PATRICK A. COLLINS,
Mayor of the City of Boston :

SIR, — The dreaded conflagration has not overtaken us yet; and, while good fortune has played a part in the satisfactory result attained, the activity and ability with which the members of this department have handled the strengthened apparatus are, in my opinion, the main cause of our success; but it is a little discouraging to see how year after year the old conditions continue by the building of wooden structures close together in those parts of the city which offer tempting bait for conflagrations, not to mention the tinder-boxes in the heart of the city.

The different branches of the department continue to give entire satisfaction, the Fire-alarm branch having struck 10,734,947 blows during the year in its manipulation of our electrical plant, while the active fighting force has shown every disposition to deserve the high praise already accorded it by its fellow-citizens. Of the 384 horses in the service, only one has died of disease.

The fire losses during the year are \$68,100 less than those of 1901, although we have had 391 more alarms than in that year.

I beg leave to express to your good self my grateful appreciation of the uniform encouragement and support with which I have been favored.

Our Roll of Merit contains the names of:

Nathan L. Hussey	. . . .	Engine 23.
Edward H. Sawyer	. . . .	Ladder 4.
Edward H. Sawyer	. . . .	" 4.
James F. Bailey	. . . .	Ladder 17.
Eugene Rogers	. . . .	" 1.
Peter Callahan	. . . .	Engine 4.
Joseph A. Kelley	. . . .	Chemical 1.
Timothy J. Heffron	. . . .	Engine 4.
James E. Downey	. . . .	" 6.
Frederick F. Leary	. . . .	Ladder 12.
Florence Donoghue	. . . .	Combination 8.
James J. O'Connor	. . . .	Engine 7.
James F. McMahon	. . . .	Combination 8.
Martin A. Kenealy	. . . .	Engine 7.
Denis Driscoll	. . . .	" 7.
William H. Magner	. . . .	Ladder 8.
Thomas J. Muldoon	. . . .	Chemical 8.
Dennis McGee	. . . .	Combination 5.
Joseph P. Hanton	. . . .	Ladder 17.
Michael J. Teehan	. . . .	" 17.

All of whom have distinguished themselves by exceptionally good work on occasion ; but the success in putting out fires, which the department has attained, has been owing to the perpetual vigilance and uniform zeal of all the officers and men without distinction.

ORGANIZATION.

Commissioner, HENRY S. RUSSELL; term expires May, 1904.

Secretary, BENJAMIN F. UNDERHILL.

Chief of Department, WILLIAM T. CHESWELL.

Assistant Chief, JOHN A. MULLEN.

Second Assistant Chief and Chief of District No. 5,
NATHAN L. HUSSEY.

Superintendent of Fire-alarms, BROWN S. FLANDERS.

Assistant Superintendent of Fire-alarms, CYRUS A. GEORGE.

Superintendent of Repair-shop, HENRY M. HAWKINS.

Assistant Superintendent of Repair-shop, EUGENE M. BYINGTON.

Hydraulic Engineer, GREELY S. CURTIS.

Veterinary Surgeon, GEORGE W. STIMPSON.

Medical Examiner, RUFUS W. SPRAGUE.

Purchasing Officer, CHARLES A. STRAW.

Storekeeper, GEORGE R. WILLIAMS.

Foreman of Hose and Harness-shop, PATRICK B. HANNON.

Master Carpenter, THOMAS C. HANEY.

Master Painter, DAVID J. FITZGERALD.

Clerks.

George F. Murphy, Daniel J. Quinn, Michael J. Lafferty,
James P. Maloney.

District Chiefs.

Patrick E. Keyes,	Headquarters,	Ladder-house	2
C. H. W. Pope,	"	"	9
Joseph M. Garrity,	"	"	8
Peter F. McDonough,	"	Engine-house	4
Edwin A. Perkins,	"	"	1
John Grady,	"	"	22
Hiram D. Smith,	"	Ladder-house	12
Edward H. Sawyer,	"	"	4
Williston A. Gaylord,	"	Engine-house	18
John F. Ryan,	"	"	41
Lewis P. Abbott	"	"	28

FORCE AND PAY-ROLL, FEBRUARY 1, 1903.

Commissioner	\$5,000	per annum.
Secretary	2,500	"
Chief of Department	3,500	"
Assistant Chief	2,400	"
Second Assistant Chief	2,200	"
Superintendent of Fire-alarms	3,200	"
Assistant Superintendent of Fire-alarms,	2,000	"
Superintendent of Repair-shop	2,000	"
Assistant Superintendent of Repair-shop,	1,800	"
Hydraulic Engineer	1,600	"

Veterinary Surgeon	2,000	per annum.
Medical Examiner	900	"
Purchasing Officer	1,600	"
Foreman of Hose and Harness Shop .	1,400	"
Storekeeper	1,200	"
Master Carpenter	1,300	"
Master Painter	1,300	"
Bookkeeper	1,650	"
3 Clerks	1,400	"
11 District Chiefs	2,000	"
51 Captains	1,600	"
69 Lieutenants	1,400	"
46 Engineers	1,300	"
38 Assistant Engineers	1,200	"
1 Assistant Engineer	1,100	"
2 Assistant Engineers	1,000	"
493 Permanent men.		
371 at	1,200	"
33 at	1,100	"
24 at	1,000	"
41 at	900	"
24 at	720	"
81 Call-men.		
1 at	325	"
12 at	250	"
68 at	200	"
11 Chiefs' Drivers	1 75	per day.
2 " "	2 25	"
2 Watchmen	1,000	per annum.
3 Hostlers (average)	1 95	per day.
1 Horseshoer	3 00	"

FIRE-ALARM FORCE.

6 Operators	\$1,600	per annum.
3 Assistant Operators	1,200	"
1 Foreman of Construction	1,800	"
17 Telegraphers and Linemen (average),	2 94	per day.

REPAIR-SHOP EMPLOYEES.

1 Sanitary Engineer	\$1,300	per annum.
1 Engineer	3 00	per day.
1 Assistant Engineer	2 50	"
1 Painter	3 75	"
1 "	2 50	"

2 Wheelwrights	3 25 per day.
4 Machinists	3 25 "
1 Machinist	3 00 "
1 "	2 75 "
2 Blacksmiths	3 50 "
1 Blacksmith	3 25 "
3 Blacksmiths' Helpers . .	2 50 "
1 Hose and Harness-repairer .	1 50 "
4 Laborers (average) . . .	2 05 "

883 total force.

FIRE DISTRICTS.

The city is divided into twelve fire districts, as follows :

District 1.

All that part of Boston known as East Boston.

District 2.

All that part of Boston formerly known as Charlestown.

District 3.

The territory bounded on the north and east by the water front, on the south by Summer street, and on the west by Washington and Charlestown streets.

District 4.

The territory bounded on the north by the Charles river, on the east by Charlestown and Washington streets, on the south by Winter, Park and Beacon streets, and on the west by the Charles river and Berkeley street.

District 5.

The territory bounded on the north by Beacon, Park, Winter and Summer streets, on the east by Fort Point channel, on the south and west by Broadway, Way, Motte, Castle and Ferdinand streets, Columbus avenue and Berkeley street.

District 6.

All that part of Boston known as South Boston, and running south as far as Dorset and Locust streets.

District 7.

The territory bounded on the north by Berkeley street, Columbus avenue, Ferdinand, Castle, Motte and Way streets and Broadway, on the east by Fort Point channel and South bay, on the south by Massachusetts avenue, and on the west by the Charles river.

District 8.

The territory bounded on the north by the Charles river and Massachusetts avenue, on the east by Washington street, on the south by Atherton and Mozart streets, Chestnut avenue, Sheridan and Centre streets, Hyde square, Perkins, Catalpa and Castleton streets, across Jamaica way to the Brookline line, and on the west by the Brookline line, Beacon and Deerfield streets.

District 9.

The territory bounded on the north by Massachusetts avenue, South bay, Dorset and Locust streets, on the east by Dorchester bay, on the south by Freeport, Hancock, Bowdoin and Quincy streets, Columbia road, and on the west by Seaver street, Columbus avenue and Washington street.

District 10.

That part of Dorchester bounded on the north by Seaver street, Columbia road, Quincy, Bowdoin, Hancock and Freeport streets, on the east by Dorchester bay, on the south by the Neponset river and the Hyde Park line, and on the west by Harvard street and Blue Hill avenue.

District 11.

All that part of Boston known as Brighton, and extending east as far as Deerfield and Beacon streets.

District 12.

All that part of Boston known as West Roxbury, bounded on the north by a line from the Brookline line across Jamaica way to Castleton street, through Castleton, Catalpa and Perkins streets, Hyde square, Centre and Sheridan streets, Chestnut avenue, Mozart and Atherton streets, Columbus avenue and Seaver street, on the east by Blue Hill avenue

and Harvard street, on the south by the Hyde Park and Dedham lines, and on the west by the Newton and Brookline lines.

In all cases where streets are designated as boundaries, the centre of the street will be the dividing line.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of a District Chief, as follows :

District.	Chief in Command.	COMPANIES IN DISTRICTS.				
		Engines.	Chemical Engines.	Ladders.	Combinations.	Water Towers.
1.....	Patrick E. Keyes....	5, 9, 11, 40	7	* 2	4	
2... ..	C. H. W. Pope	27, 32, 36	9	* 9	5, 7	
3.....	Joseph M. Garrity...	8, 25, 31, 44	.....	* 8, 14		
4.....	Peter F. McDonough,	* 4, 6, 10	1	1	8	1
5.....	Nathan L. Hussey....	7, * 26, 35	2	17		
6.....	Edwin A. Perkins....	* 1, 2, 15, 38, 39, 43	8	5, 18	2, 3	3
7.....	John Grady.....	3, * 22, 33	4	3, 13, 15		2
8.....	Hiram D. Smith.....	13, 14, 37	12	* 12	10	
9.....	Edward H. Sawyer..	12, 21, 23, 24	10	* 4	6	
10.....	Williston A. Gaylord,	16, 17, * 18, 19, 20	.....	6, 7	1, 11	
11.....	John F. Ryan	29, 34, * 41	6	11		
12.....	Lewis P. Abbott.....	* 28, 30, 42, 45	5	10, 16	9	

* Headquarters of District Chief.

The following property is in charge of the Fire Commissioner :

Houses.

Location.	Number of feet in lot.	Assessed Valuation.	Occupied by
Dorchester and Fourth sts.....	8,169	\$25,800	Engine 1 and Ladder-house 5 on this lot.
Corner of O and Fourth sts.....	4,000	16,400	Engine 2.
Bristol st. and Harrison ave.....	4,000	30,000	Engine 3 and Ladder 3.

Houses. — Continued.

Location.	Number of feet in lot.	Assessed Valuation.	Occupied by
Bulfinch st.....	6,098	96,000	Engine 4, Chemical 1 and Tower 1.
Marion st., East Boston	1,647	9,000	Engine 5.
Leverett st....	2,269	35,000	Engine 6.
East st	1,893	35,400	Engine 7.
Salem st.....	2,568	22,800	Engine 8.
Paris st., East Boston	4,720	29,200	Engine 9 and Ladder 2.
River st.....	1,886	20,000	Engine 10.
Saratoga and Byron sts., East Boston,	10,000	38,500	Engine 11 and Combination 4.
Dudley st.....	7,320	25,000	Engine 12.
Cabot st.....	4,832	16,000	Engine 13.
Centre st.....	5,713	14,600	Engine 14.
Dorchester ave.....	2,803	20,000	Engine 15.
Corner River and Temple sts.....	12,736	19,200	Engine 16 and Ladder 6.
Meeting House Hill, Dorchester District	9,450	17,300	Engine 17 and Ladder-house 7 on this lot.
Harvard st., Dorchester District	9,440	18,300	Engine 18.
Norfolk st., " " 	7,683	14,200	Engine 19.
Walnut st., " " 	9,000	16,800	Engine 20 and Combination 11.
Columbia road " " 	10,341	17,100	Engine 21.
Warren ave.....	7,500	62,500	Engine 22 and Ladder 13.
Northampton st.....	3,445	13,200	Engine 23.
Corner Warren and Quincy sts.....	4,186	18,100	Engine 24.
Fort Hill sq.....	4,175	88,100	Engine 25, Ladder 8 and Ladder 14.
Mason st	5,623	113,000	Engine 26 and Engine 35.
Elm st., Charlestown District.....	2,600	18,000	Engine 27.
Centre st., Jamaica Plain.....	10,377	28,300	Engine 28 and Ladder 10.
Chestnut Hill ave., Brighton District,	14,358	37,200	Engine 29 and Ladder 11.
Centre st., West Roxbury District....	12,251	25,000	Engine 30 and Combination 9.
Bunker Hill st., Charlestown District,	8,188	26,200	Engine 32.
Corner Boylston and Hereford sts....	5,646	66,000	Engine 33 and Ladder 15.
Western ave., Brighton.....	4,637	17,800	Engine 34.
Monument st., Charlestown District,	5,668	21,000	Engine 36 and Combination 5.
Corner Longwood and Brookline aves.....	5,231	13,200	Engine 37 and Combination 10.

FIRE DEPARTMENT.

9

Houses. — Concluded.

Loca ion.	Number of feet in lot.	Assessed Valuation.	Occupied by
Congress st.....	4,000	37,000	Engine 38 and Engine 39.
Sumner st., East Boston.....	4,010	18,000	Engine 40.
Harvard ave., near Cambridge st., Brighton District.....	6,112	25,500	Engine 41 and Chemical 6.
Washington, between Atherton and Beethoven sts.....	3,848	22,900	Engine 42 and Chemical 5.
Andrew sq.	5,133	20,100	Engine 43 and Combina tion 3.
Washington, corner Poplar st., Ros- lindale	14,729	22,400	Engine 45 and Ladder 16..
Church st.....	3,412	23,600	Chemical Engine 2.
Shawmut ave.....	889	5,700	Chemical Engine 4.
Saratoga st., East Boston	9,300	25,600	Chemical Engine 7.
B st.	1,804	7,800	Chemical Engine 8.
Eustis st.	1,754	7,500	Chemical Engine 10.
Friend st.	1,676	34,000	Ladder 1.
Dudley st.	3,923	26,000	Ladder 4.
Main st., Charlestown	4,290	17,700	Ladder 9 and Chemical 9.
Tremont st.	4,311	25,700	Ladder 12 and Chemical 12.
Harrison ave.....	2,134	24,100	Ladder 17.
Pittsburgh st., South Boston.....	11,363	29,400	Ladder 18.
Dorchester ave., Ashmont.....	4,875	22,900	Combination 1.
Fourth st.....	3,101	11,000	Combination 2.
Washington st., Dorchester	6,874	21,400	Combination 6.
Winthrop st.	3,000	13,200	Combination 7.
North Grove st.....	3,918	18,000	Combination 8.

	Assessed Valuation.
Fuel-house, Dorchester street, 1,610 feet of land,	\$3,300.
Fuel-house, Salem street, 417 feet of land .	3,400.
Fuel-house, Main street, Charlestown, 2,430 feet of land	7,200.
Headquarters building and repair-shop, corner of Albany and Bristol streets, 23,679 feet .	185,000.
Water Tower No. 2 and Wrecking Wagon are in Headquarters building.	
Veterinary Hospital, Atkinson street, 64,442 feet of land	36,300.
Fuel-house, Washington, near Dover street, 1,007 feet of land	13,500.

Engine Companies.

STEAM FIRE-ENGINES.—Forty-three in service, located as follows: Twelve in City proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

FIRE-BOAT.—One, located India Wharf.

HOSE-WAGONS.—Forty-three, located as follows: Twelve in City proper, four in East Boston, six in South Boston, five in Roxbury, six in Dorchester, three in Charlestown, four in West Roxbury, and three in Brighton.

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Second size.
1	Dorchester, near Fourth, S. B.,	Clapp & Jones Mfg. Co.,	April 1, 1890	8 $\frac{1}{2}$	5	7	Second
2	Fourth, cor. O, South Boston..	Manchester Loco. Works,	Nov., 1890	6 $\frac{1}{2}$	4	8	Third
3	Harrison ave., cor. Bristol st..	Clapp & Jones Mfg. Co.,	Aug. 22, 1890	9	5 $\frac{1}{2}$	8	"
4	Bulfinch st.	American Fire Eng. Co.,	Feb. 22, 1893	9	5 $\frac{1}{2}$	8	"
5	Marion st., East Boston.....	Hanneman & Co.....	Oct. 14, 1872	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
6	Leverett st.	Formerly Relief B., re- built by Manchester Loco. Works.....	Nov., 1900	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	First
7	East st.	American Fire Eng. Co.,	June, 1895	9	5 $\frac{1}{2}$	8	"
8	Salem st.	Manchester Loco. Works,	March 30, 1896	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second
9	Paris st., East Boston.....	Formerly Silsby Engine 33, rebuilt by American Fire Eng. Co.....	Dec. 20, 1901	8	4 $\frac{3}{8}$	8	"
10	Mount Vernon, cor. River st..	Manchester Loco. Works,	March 1, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
11	Saratoga, cor. Byron st., E. B.,	Amoskeag Mfg. Co.....	April 9, 1873	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
12	Dudley st.	Manchester Loco. Works,	March 27, 1882	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"
13	Cabot st.	Clapp & Jones Mfg. Co.,	April 1, 1890	8 $\frac{1}{2}$	5	7	"
14	Centre st.	Amoskeag Mfg. Co.....	Sept. 17, 1870	7 $\frac{3}{8}$	4 $\frac{3}{8}$	8	"
15	Dorchester ave. and Broadway	American Fire Eng. Co.,	Feb., 1893	9	5 $\frac{1}{2}$	8	First

FIRE DEPARTMENT.

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16	Temple st., Dorchester.....	Amoskeag Mfg. Co..... (Old Engine 27.)	July 1, 1872	7½	4½	8	Second "
17	Meeting House Hill, Dorches'r,	Amoskeag Mfg. Co.....	May, 1886	6¾	4½	8	"
18	Harvard st., Dorchester.....	Manchester Loco. Works,	Nov., 1890	6½	4	8	Third
19	Norfolk st., Dorchester.....	Clapp & Jones Mfg. Co.,	Dec. 5, 1891	7	4½	7	"
20	Walnut st., Dorchester.....	Manchester Loco. Works,	Nov., 1890	6½	4	8	"
21	Columbia road, Dorchester....	Clapp & Jones Mfg. Co.,	Dec. 10, 1893	7	4½	7	"
22	Warren ave.....	Rebuilt by American Fire Eng. Co.....	Jan., 1901	8	4½	8	Second "
23	Northampton st.....	Formerly Silsby Engine 6, rebuilt by American Fire Eng. Co.....	July 3, 1901	8	4½	8	"
24	Warren, cor. Quincy st.....	Clapp & Jones Mfg. Co.,	Feb. 24, 1888	7	4½	7	Third "
25	Fort Hill sq.....	Manchester Loco. Works,	Nov., 1896	7¾	4½	8	First "
26	Mason st.....	La France Fire Eng. Co.,	June, 1895	8¾	5½	9	Extra first size.
27	Elm st., Charlestown.....	Formerly Silsby Engine 40, rebuilt by American Fire Eng. Co.....	June 11, 1902	8	4½	8	Second size.
28	Centre st., Jamaica Plain.....	Silsby Mfg. Co.....	April 29, 1886	.....	Rotary.	8	"
29	Chestnut Hill ave., Brighton..	Hunneman & Co.....	Jan. 1, 1874	7½	4½	8	"
30	Centre st., West Roxbury.....	Clapp & Jones Mfg. Co.,	Oct. 9, 1891	7	4½	7	Third "
31	Central wharf (spare Fire-boat)	Clapp & Jones Mfg. Co.,	July 3, 1889	16	9	10	2 sets of pumps 4,790 gallons.*
32	Bunker Hill st., Charlestown..	Manchester Loco. Works,	March 28, 1884	6½	4½	8	Second size.
33	Boylston st.....	Manchester Loco. Works,	April 16, 1901	7¾	4½	8	"
34	Western ave., Brighton.....	Amoskeag Mfg. Co.....	Dec., 1869	7¾	4½	8	"
35	Mason st.....	Manchester Loco. Works, Self-propeller.....	Jan., 1898	9½	5½	8	Double extra first size.
36	Monument st., Charlestown....	Manchester Loco. Works,	Dec., 1890	6½	4	8	Third size.
37	Longwood ave.....	Manchester Loco. Works,	March, 1896	6½	4½	8	Second "
38	Congress st., South Boston....	Manchester Loco. Works, Self-propeller.....	June, 1897	9½	5½	8	Double extra first size.
39	Congress st., South Boston....	Manchester Loco. Works,	June 14, 1901	8½	5	8	First size.
40	Summer st., East Boston.....	Formerly Silsby Engine 16, rebuilt by American Fire Eng. Co.....	June 30, 1902	8	4½	8	Second size.

Engine Companies. — *Concluded.*

No.	Location.	Built by	Put in Service.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Third size.
41	Harvard ave., Brighton.....	Clapp & Jones Mfg. Co.,	Feb., 1893	7	4 $\frac{3}{8}$	7	Third size.
42	Washington, between Atherton and Beethoven sts.....	American Fire Eng. Co.,	Feb., 1893	.....	Rotary.	"	"
43	Andrew sq., South Boston.....	Clapp & Jones Mfg. Co.,	March 3, 1893	7	4 $\frac{3}{8}$	7	"
44	India wharf (Fire-boat).....	American Fire Eng. Co.,	Aug., 1895	12 $\frac{3}{4}$ H. 18 L.	P. } P. 10 }	10	2 sets of pumps 6,520 gallons.*
45	Washington, corner Poplar st., Roslindale	American Fire Eng. Co.,	Jan., 1895	7	4 $\frac{3}{8}$	7	Third size.

* At 225 revolutions per minute.

In Reserve.

A	Old 8.....	Freeman & Jacket.....	April 26, 1869	7 $\frac{1}{2}$	4 $\frac{1}{2}$	8	Second size.		
B	Old 39.....	Clapp & Jones Mfg. Co.,	April, 1890	9	5 $\frac{1}{2}$	8	"		
C	.....	Manchester Loco. Works,	Dec., 1879	6 $\frac{1}{2}$	4 $\frac{1}{2}$	8	"		
D	Old 17 (Crane neck).....	Amoskeag Mfg. Co.....	Sept., 1870	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"		
E	Old 4 (Straight frame).....	Amoskeag Mfg. Co.....	Nov., 1867	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"		
F	Old 1.....	Amoskeag Mfg. Co.....	Sept., 1872	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"		
G	Old 25.....	Clapp & Jones Mfg. Co.,	Nov., 1890	9	5 $\frac{1}{2}$	8	First		
H	Old 37.....	Amoskeag Mfg. Co.....	July, 1867	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	Second		
I	Old 35.....	Clapp & Jones Mfg. Co.,	Aug., 1890	9	5 $\frac{1}{2}$	8	First		
	Old 23.....	Silsby Mfg. Co.....	Sept. 12, 1890	.....	Rotary.	8	Second		
	Old 5.....	Amoskeag Mfg. Co.....	Nov., 1867	7 $\frac{3}{8}$	4 $\frac{1}{2}$	8	"		
		Manchester Loco. Works (Built in 1884.)	May, 1902	8 $\frac{1}{2}$	5	8	First		

Also five hose wagons.

Chemical Companies.

CHEMICAL ENGINES. — Ten in service, self-acting, located as follows: Three in the City Proper, one in East Boston, one in Charlestown, one in South Boston, two in Roxbury, one in West Roxbury, and one in Brighton.

Number.	Location.	Builders.	Put in Service.	Capacity.
1.....	Bulfinch st.....	Babcock Manufacturing Co.....	Oct., 1890	<i>Gals.</i> 100
2.....	Church st.....	"	April 25, 1874	160
4.....	Shawmut ave.....	Rebuilt by Hinman in 1886.....	Used as a spare engine and put in service Dec. 20, 1895	100
5.....	Washington, between Atherton and Beethoven sts.....	Altered by Hinman	Sept. 21, 1876	170
6.....	Harvard ave., near Cambridge st., Brighton,	"	May 1, 1876	160
7.....	Saratoga st., East Boston.....	"	Sept. 27, 1886	100
8.....	B st., South Boston.....	"	Oct. 27, 1887	160
9.....	Main st., Charlestown.....	"	July 17, 1889	100
10.....	Fustis st.....	"	Sept. 13, 1889	100
12.....	Tremont st.....	Charles T. Holloway.....	Sept., 1896	80

In Reserve.

A.....	Old Chemical 2.....	Charles T. Holloway.....	100
B.....	Old Chemical 1.....	"	100
C.....	Spare.....	Babcock Manufacturing Co.....	100

In Reserve.

Description.	Builders.
Relief B, old 8	Fire Department Repair-shop.
Old Ladder 11	Hunnenman & Co. Rebuilt as Combination in 1900.
" " 4	La France Fire Engine Co., Elmira, N. Y.
" " 2	Abbott & Downing.
	Extension.

Combination Companies.

COMBINATION TRUCKS. — Nine in service, located as follows: One in City Proper, one in East Boston, one in Roxbury, two in South Boston, one in Charlestown, two in Dorchester, and one in West Roxbury.

COMBINATION WAGONS. — Two in service, located as follows: One in Dorchester and one in Charlestown.

Number.	Location.	Built by		Put in Service.	Capacity.
1.....	Dorchester ave., Ashmont	Charles T. Holloway.....	Chemical and Hose	March, 1892	<i>Gals.</i> 70
2.....	Fourth st., South Boston	Fire Extinguisher Mfg. Co. ..	" " Ladder ..	Jan., 1898	70
3.....	Andrew sq., South Boston.....	Charles N. Perkins & Co.	" " " ..	Dec. 30, 1902	70
4.....	Saratoga, cor. Byron st., E.B., ..	Charles T. Holloway.....	" " " ..	Jan., 1898	70
5.....	Monument st., Charlestown	" "	" " " ..	Jan., 1898	70
6.....	Washington st., Dorchester ..	Fire Extinguisher Mfg. Co. ..	" " " ..	Nov. 8, 1898	70
7.....	Winthrop st., Charlestown.....	" " ..	" " Hose	April 29, 1898	70
8.....	North Grove st.	" " ..	" " Ladder ..	Nov. 1, 1899	70
9.....	Centre st., West Roxbury	Charles T. Holloway & Co.....	" " " ..	April 25, 1900	70
10.....	Longwood ave.....	" " ..	" " " ..	Oct., 1901	70
11.....	Walnut st., Dorchester	Charles N. Perkins & Co.	" " " ..	Nov., 1901	70

One spare.

Water-towers.

WATER-TOWERS. — Two, located in City Proper.

Number.	Location.	Builders.	Put in Service.
1.....	Bulfinch st.....	Kansas City Fire Department Supply Co....	May 17, 1890.
2.....	Bristol st	" " " "	Dec. 18, 1893.

PORTABLE EXTINGUISHERS. — Carried on all of the ladder trucks and hose-wagons and located in the department houses.

FUEL-WAGONS. — Thirty-nine, each capable of conveying about two tons.

WAGONS. — Seventeen for chief of department and district-chiefs (fourteen in service and three in reserve) and one buggy.

PUMPS. — Forty-eight; forty-three for carrying hose, two for jobbing, and three for Fire-alarm branch. District-chiefs' sleighs, seven.

REPAIR-SHOP. — In the repair shop one 25-horse-power steam engine, cylinder 9 by 31 inches, Putnam Machine Company; one 26-inch by 26-inch iron planer, 8-ft. table, 12-ft. bed; two 14-inch swing engine lathes, 6-ft. bed; one 14-inch swing engine lathe, 10-ft. bed; one No. 2 upright drill; four blacksmith's forges; one furnace for heating tires; one 28-inch swing standard engine lathe; one 14-inch speed lathe, 5-ft. bed; one 14-inch swing patent engine lathe, 5-ft. bed; one 25-inch shaping machine; one 68-inch radial drill; one duplex and one Blake pump for feeding boilers; one Knowles triplex pump for testing hose; one patent goose-neck belt drill; one band-saw; one circular saw; one monarch boring machine; together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

Three upright tubular boilers, 100-horse-power.

Two dynamos for lighting and fire-alarm; one tire upsetter in the blacksmith shop; one No. 2 Blake pump in the hose and harness-shop for testing hose.

NEW APPARATUS PURCHASED DURING THE YEAR.

- 1 extra first-size Amoskeag engine (second-hand).
 4 first-size hose wagons with rubber tires.
 1 aerial truck.
 1 combination truck.

Amount of hose purchased and condemned during the year:

	Purchased.	Condemned.
Leading cotton,	10,500 feet.	6,100 feet.
“ rubber,	1,300 “	1,800 “
Chemical,	1,000 “	1,100 “
Suction,	198 “	105 “
Totals,	12,998 “	9,105 “

Amount of hose in use and in store February 1, 1903:

	In Use.	In Store.
Leading cotton,	87,600 feet.	18,050 feet.
“ rubber,	5,250 “	2,150 “
Chemical,	10,450 “	950 “
Suction,	906 “	148 “
Totals,	104,206 “	21,298 “

HORSES.

Purchased during the year	.	.	.	.	.	60
Sold or exchanged	.	.	.	.	.	41
Died	.	.	.	.	.	1
Killed for cause	.	.	.	.	.	9
Killed in service	.	.	.	.	.	1
Number in the department	.	.	.	.	.	382

EXPENDITURES FOR THE YEAR.

Salaries	\$989,416 45
Repairs of apparatus	40,376 20
" " houses	18,941 98
New apparatus	11,353 52
" hose	18,110 37
Repairs of hose	850 12
Fuel	30,146 88
Electric and gas-lighting	11,484 30
Printing and stationery	2,368 08
Furniture and bedding	2,938 75
Small supplies	8,775 48
Horses — purchase and exchange	8,584 77
Horse-hire and keeping	3,038 21
Hay, grain and straw	43,181 60
Washing	3,641 95
Shoeing	17,528 73
Harnesses and repairs	2,995 20
Oils, chemicals, etc.	2,889 39
Hats, badges and buttons	1,025 91
Ladders and repairs	189 33
Tools for repair-shop and mechanics	744 30
Extra service	1,548 93
Reservoirs and hydrants	45 32
Contingencies	5,606 72
Pensions	64,478 63
Rent for buildings, telephones, etc.	8,365 01
Construction and material, fire-alarm branch,	7,260 72
Underground construction	11,514 35
Salt water fire-service	1 19
	<hr/>
	\$1,317,402 39
	<hr/>

INCOME.

Sale of manure	\$20 00
Rent	40 00
Old material	500 88
Licenses for the sale of fireworks and gun- powder	1,004 00
Bath department, steam for Dover street bath- house	6,452 10
	<hr/>
	\$8,016 98
	<hr/>

FIRE DEPARTMENT.

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MONTHS. 1902-1903.	ALARMS RECEIVED.						LOSS.		INSURANCE.		ALARMS.						Extended to others.	Not in buildings.	Out of city.	BUILDINGS.				
	FROM WHOM.										TELEGRAPH.		STILL.		Fire.	False.				Needless.	Fire.	Needless.	Slight damage.	Considerable damage.	Totally destroyed.
	Members.	Police.	Citizens.	Telephone.	Automatic.	Unknown.	Total.	Buildings.	Contents.	Buildings.	Contents.	Fire.	False.	Needless.			Fire.	Needless.						
	1902.																							
February	10	24	153	17	6	4	214	\$90,384	\$166,821	\$2,427,914	\$918,300	107	4	9	83	11	121	2	64	3	39	72	15	1
March	2	16	137	4	6	1	166	44,996	75,116	771,600	282,275	79	5	7	65	10	106	1	35	2	34	62	11	2
April	5	27	153	12	11	3	211	22,970	21,769	1,208,305	111,500	112	6	10	63	20	119	2	51	3	36	74	12	2
May	12	24	160	8	7	3	214	41,812	78,465	732,250	354,765	110	5	12	72	15	147	4	31	....	65	80	9	1
June	7	38	185	11	7	1	249	26,002	51,890	1,404,734	344,083	137	2	6	94	10	151	4	73	3	70	77	12	5
July	10	38	218	10	12	8	296	49,778	114,268	1,326,500	315,913	150	12	9	108	17	177	8	72	1	67	102	17	7
August	4	18	136	9	11	2	180	17,707	25,454	702,849	166,568	97	2	6	54	21	130	5	14	2	65	65	10	2
September	2	13	119	7	4	5	150	41,085	34,995	591,400	233,525	75	5	5	51	14	108	3	12	3	44	60	9	8
October	7	9	150	8	8	5	187	14,545	18,147	699,575	188,350	108	5	3	50	21	141	2	14	1	57	82	10	
November	9	19	161	12	4	3	208	26,076	39,613	1,057,557	155,980	101	3	9	81	14	146	3	32	1	59	83	9	1
December	13	30	194	16	21	16	290	106,612	261,463	1,318,077	1,544,647	133	17	10	95	35	212	3	11	2	77	123	19	2
1903.																								
January	4	24	185	12	14	12	251	110,203	282,448	1,246,175	871,172	133	12	11	69	26	187	2	10	3	65	108	15	3
Totals	85	280	1,951	126	111	63	2,616	\$592,170	\$1,170,449	\$13,486,936	\$5,487,078	1,342	78	97	885	214	1,745	39	419	24	678	988	148	34

CAUSES OF FIRES AND ALARMS FROM FEBRUARY 1, 1902,
TO FEBRUARY 1, 1903.

Alarms, accidental automatic	96
" false	78
" out of city	24
Ashes, hot, in wooden receptacle	39
Boiling over of fat or tar	32
Bonfires, grass, rubbish, etc., set by boys	362
Boys breaking windows	1
Careless use of lamps, candles, etc.	48
" " " pipes and cigars in smoking	47
Chimneys, soot burning	98
" defective	39
Clothes too near stove	9
Cry of " Help " mistaken for fire	1
Defective flue	12
" stove-pipe.	4
" furnace	6
" fireplace	6
" oven	2
" automobile	1
" gas-pipe	14
Electric motor igniting car	4
" wires	32
Explosion and ignition of chemicals	8
Fireworks	30
Friction	4
Fumigating	6
Gas, explosion of	3
" jet setting fire	39
" stove, careless use of, and explosion	16
Hot iron igniting woodwork	3
Incendiary	47
" supposed	21
Kerosene used to light fire	1
Lamp explosion	53
" upsetting and breaking	71
Light mistaken for fire	16
Lightning	3
Matches and rats	24
" " children	82
" careless use of	163
Meat burning on stove	6
Naphtha, careless use of, and ignition	29
Oil stove, careless use of, and explosion	92

FIRE DEPARTMENT.

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Overheated boiler or steam-pipe	19
“ stove or furnace	41
Plastering, drying	6
Plumber's stove upsetting	6
Set by boys	87
Slacking of lime	1
Smoky chimneys	48
“ stove or furnace	68
Sparks from another fire	3
“ “ boiler	6
“ “ chimney	41
“ “ engine or locomotive	29
“ “ forge	10
“ “ furnace or stove	22
“ “ open grate	2
“ “ trolley wire	1
Spontaneous combustion	58
Steam escaping	9
Train wreck	1
Unknown	465
Water-pipes, thawing out	19
Water-back bursting	2
Total	<u>2,616</u>

Extinguished by

Extinguishers	420
Buckets of water	276
Chemical engines	450
Hydrant stream	198
Steamers	381
Miscellaneous, brooms, stamping out and smothering, .	171
Citizens	301
Sprinklers	6

Summary of construction, extension, renewal and repair work done for the maintenance and operation of the Fire-alarm branch for the year ending January 31, 1903 :

Overhead wire used, chiefly for rebuilding the lines in Charlestown and

East Boston	366,960	feet.
Old wire taken down	385,440	“
Cable run overhead	9,070	“
Conductors in same	54,521	“
Overhead cable taken down	4,295	“

Conductors in same	24,376	feet.
Underground cable laid in N. E. tele- phone ducts	13,524.9	"
Ducts put in by this department	3,257	"
Total ducts owned by city	16,537.8	"
Total underground cable laid	19,471	"
Conductors in same	493,375	"
Total cable under ground February 1, 1903	193,461.5	"
Conductors in same	5,228,218.9	"
Service connections		15
Boxes rebuilt		72
Cross-arms used		730
New boxes added to service, including 15 with auxiliary attachment		18
Boxes changed to keyless door		2
Boxes changed to lamp-posts		5
New lamp-posts set		11
Lamp-posts set to replace posts broken by accident, Boxes in service		6 647
Bell alarms struck in year ending December 31, 1902		1,566
Blows struck on bells, gongs and tappers		10,734,147

ALARM BELLS.

The Fire-alarm Telegraph is connected with the following bells:

- Adams School-house, Sumner street, East Boston, steel, 2,995 lbs., owned by city.
- Bunker Hill School-house, Charlestown, composition, 2,009 lbs., owned by city.
- City Hall, Charlestown, composition, 3,600 lbs., owned by city.
- Engine-house No. 16, Temple street, Dorchester, composition, 4,149 lbs., owned by city.
- Engine-house No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs., owned by city.
- Engine-house No. 19, Mattapan, Dorchester, composition, 2,927 lbs., owned by city.
- Engine-house No. 20, Walnut street, Dorchester, composition, 3,061 lbs., owned by city.
- Engine-house No 28, West Roxbury, composition, 4,000 lbs., owned by city.
- Engine-house No. 29, Brighton, steel, 1,535 lbs., owned by city.

Engine-house, Mt. Vernon street, West Roxbury, steel, 1,000 lbs., owned by city.
Engine-house No. 34, Brighton, composition, 1,501 lbs., owned by city.
Engine-house No. 41, Allston, composition, 900 lbs., owned by city.
Engine-house No. 45, Roslindale, composition, 1,059 lbs., owned by city.
Lewis School-house, Dale street, Roxbury, composition, 3,104 lbs., owned by city.
Maverick-street Church, East Boston, composition, 2,000 lbs.
Princeton-street School-house, East Boston, composition, 2,470 lbs., owned by city.
Saratoga-street M. E. Church, East Boston, steel, 1,968 lbs., owned by city.
Warren School-house, Charlestown, composition, 3,000 lbs., owned by city.

Bells owned by the city, which have been disconnected from service, are located as follows :

Berkeley Temple, composition, 2,941 lbs. Formerly used on Quincy School-house.
Chapman School-house, steel, 3,109½ lbs., taken down and stored by Public Buildings Department.
Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.
Engine-house No. 2, composition, 800 lbs.
Engine-house No. 18, Harvard street, Dorchester, composition, 3,184 lbs.
Engine-house, No. 21, Columbia road, Dorchester, composition, 3,026 lbs.
Faneuil Hall, steel, 5,816 lbs.
Ladder-house No. 4, Dudley street, Roxbury, composition, 3,509 lbs.
Lawrence School-house, B street, South Boston, steel, 3,400 lbs.
Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.
Smith-street School-house, Roxbury, composition, 4,083 lbs.
Ticknor School-house, Dorchester street, Washington Village, steel, 2,995 lbs.
Trinity Church, Trenton street, East Boston, composition, 1,760 lbs. Formerly used on Castle-street Church.
Van Nostrand's Brewery, Charlestown, composition, 818 lbs. Formerly used on Boylston School-house.
Wells School-house, Blossom street, composition, 1,675 lbs.
Winthrop School-house, Charlestown, composition, 3,000 lbs.

PUBLIC CLOCKS.

The following public clocks, thirty-eight in number, are taken care of by the Fire Department:

City Proper.

Arlington-street Church.
Charles-street Church.
Christ Church, Salem street, owned by city.
Commercial Wharf.
Odd Fellows' Hall, Tremont street, owned by city.
Old South Church, owned by city.
Old State House, owned by city.
Park-street Church.
Suffolk County Jail, owned by city.
St. Stephen's Church, Clark street, owned by city.
Shawmut-avenue Church.
Tremont M. E. Church, owned by city.
Young Men's Christian Union, owned by city.

South Boston.

Gaston School-house, owned by city.
Lincoln School-house, owned by city.
Phillips Church, owned by city.
St. Augustine Church, Dorchester street, owned by city.
Ticknor School-house, Washington Village, owned by city.

East Boston.

Central-square Church.
London-street Church, owned by city.
Lyceum Hall, owned by city.
Trinity Church, owned by city.
Orient Heights Church, owned by city.

Roxbury.

Winthrop-street, Church, owned by city.
Boston Elevated Railway Car-house, Columbus avenue.

Dorchester.

Baker Memorial (Upham's Corner), owned by city.
Neponset Church.
Tileston school (Mattapan), owned by city.
Unitarian Church (Milton Lower Mills).

Charlestown.

Bunker Hill Church.
 City Hall, owned by city.
 Harvard Hill Church.
 High School-house, owned by city.
 Unitarian Church.

West Roxbury.

Dr. Strong's Church, (South Evangelical), owned by city.
 Unitarian Church, Jamaica Plain, owned by city.
 Congregational Church (Roslindale), owned by city.

Brighton.

Bennett School-house, owned by city.

The following Fire-alarm boxes are private property : 113, 117, 119, 149, 152, 161, 163, 164, 166, 212, 223, 227, 228, 244, 271, 281, 283, 297, 299, 342, 422, 434, 442, 443, 445, 446, 447, 448, 449, 466, 467, 468, 495, 511, 533, 617, 619, 624, 629, 698, 711, 714, 715, 716, 718, 722, 724, 725, 727, 728, 729, 731, 732, 733, 734, 735, 736, 737, 739, 741, 742, 744, 745, 746, 755, 758, 759, 762, 766, 767, 773, 778, 779, 789, 791, 792, 793, 794, 795, 796, 797, 799, 816, 828, 838, 842, 864, 865, 919, 927, 967, 969, 971, 974.

Your obedient servant,

HENRY S. RUSSELL,
Commissioner.



